

Department of Energy

Albuquerque Operations Office Los Alamos Area Office Los Alamos, New Mexico 87544

HAND DECIVERED CERTIFIED MAIL-RETURN RECEIPT REQUESTED

John E. Kieling RCRA Permits Management Program Hazardous and Radioactive Materials Bureau New Mexico Environment Department 2044 Galisteo Street, Building A P. O. Box 26110 Santa Fe, NM 87505

Dear Mr. Kieling:

Subject: Transmission of the Reformatted Version of the Technical Area (TA) 36 RCRA Permit Application

The purpose of this letter is to transmit two hard copies and one electronic copy of the TA-36 reformatted permit application. We have taken the old format and updated it to reflect the new Technical Area specific approach that we have all agreed upon.

We have taken the liberty of adding a risk assessment to the application. It was an item that your staff requested through a request for supplemental information when they were reviewing the TA-14 application. We hope this will make the review easier.

If you should have any questions concerning this submittal, please feel free to address them to either me (505-665-5042) or Jack Ellvinger (505-667-0633).

Sincerely, "Jody" Plum Office of Environment

LAAME:6JP-161

3 Enclosures

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2351

John E. Kieling

.

bcc w/o enclosures: Hortense Haynes, Office of Counsel, LAAO Michelle Cash, ESH-19, LANL, MS-P915 Jack Ellvinger, ESH-19, LANL, MS-K490

| Document: | LANL TA-36 Part B |
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| Revision No.: | 0.0 |
| Date: | September 1999 |

Part B Permit Application Technical Area 36 Open Detonation Unit

Revision 0.0

Prepared by: Los Alamos National Laboratory Hazardous and Solid Waste Group (ESH-19) Los Alamos, New Mexico 87545

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- 2-1 Location Map Showing the Open Detonation Unit near Technical Area (TA) 36, Building 8
- 4-1 Solid Waste Management Units (SWMU) in the Vicinity of the Open Detonation Unit near Technical Area (TA) 36, Building 8

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LIST OF ATTACHMENTS

| ATTACHMENT | TITLE |
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| А | Facility Description |
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| С | Inspection Plan |
| D | Personnel Training Plan |
| E | Contingency Plan |
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LIST OF SUPPLEMENTS

<u>SUPPLEMENT</u>

<u>TITLE</u>

| 2-1 | Waste Explosives Detonated at Technical Area 36 |
|-----|---|
| 2-2 | Impulse Noise Measurements at Technical Area 36 |

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LIST OF ABBREVIATIONS/ACRONYMS

| AEHA | U.S. Army Environmental Hygiene Agency |
|-------------|---|
| dB | decibel |
| EPA | U.S. Environmental Protection Agency |
| HRMB | Hazardous and Radioactive Materials Bureau |
| LANL | Los Alamos National Laboratory |
| 20 NMAC 4.1 | New Mexico Administrative Code, Title 20, Chapter 4, Part 1 |
| NMED | New Mexico Environment Department |
| OD | open detonation |
| RCRA | Resource Conservation and Recovery Act |
| SOP | standard operating procedure |
| SWMU | solid waste management unit |
| ТА | technical area |

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1.0 INTRODUCTION

This revised "Part B Permit Application: Technical Area 36 Open Detonation Unit≅ is submitted to address the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), revised January 1, 1997 [1-1-97], requirements specific to hazardous waste open detonation (OD) operations at TA-36. This permit application contains much of the same information for the TA-36 OD unit as was included in the APart B Permit Application: Open Burning/Open Detonation Units at Technical Areas 14, 15, 36, and 39," submitted in September 1996 (Los Alamos National Laboratory [LANL] 1996). The information in that application has been reformatted in this document to meet the permitting strategy outlined by the New Mexico Environment Department (NMED) Hazardous and Radioactive Materials Bureau (HRMB) in correspondence dated February 5, 1998. As presented in the correspondence, TA-specific permit applications, permit modification requests, and permit renewal documents will cover any details and/or requirements not addressed in the ALos Alamos National Laboratory General Part B Permit Application, ≅ Revision 1.0 (LANL, 1998a), hereinafter referred to as the LANL General Part B. The LANL General Part B will serve in the operating permit as an "umbrella" document, covering the requirements of the New Mexico Hazardous Waste Act and implementing regulations, specifically 20 NMAC 4.1 [1-1-97], common to all TAs. Together, information provided in this document and in the LANL General Part B will meet the applicable requirements specified in 20 NMAC 4.1, Subparts V and IX [1-1-97]. This TA-36 Part B permit application is organized similar to the LANL General Part B and contains six primary sections and numerous attachments. Attachments A through F in this document correspond to Appendices A through F in the LANL General Part B. To expedite the permitting process, information is provided in this document to address topics the NMED included in a Notice of Deficiency and in a Request for Supplementary Information for open burning and OD operations at TA-14.

In accordance with HRMB=s permitting strategy, LANL submitted the ALos Alamos National Laboratory General Part A Permit Application≅ in April 1998 (LANL, 1998b). The LANL General Part A consolidated information from previous site-wide and TA-specific Part A submittals into one comprehensive document, identifying all hazardous and mixed waste treatment, storage, and disposal facilities subject to 20 NMAC 4.1, Subparts V, VI, and IX [1-1-97], at LANL as of April 30, 1998. The LANL General Part A serves as a companion document to the LANL General Part B and TA-specific permit applications, permit modification requests, and permit renewal documents, including this TA-36 Part B permit application.

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In the LANL General Part A, the LANL General Part B, and this permit application, a unit to be permitted may sometimes be referred to as a "facility." The term "facility," as it appears in this context, is used only to denote building names and does not imply the regulatory meaning of "facility" as defined in 20 NMAC 4.1, Subpart I, 260.10 [1-1-97]. However, pursuant to 20 NMAC 4.1, Subpart I, 260.10 [1-1-97]. However, pursuant to 20 NMAC 4.1, Subpart I, 260.10 [1-1-97].

Table 1-1 provides a list of regulatory references and the corresponding location in this permit application, as appropriate. Where applicable, regulatory citations in this document reference 20 NMAC 4.1, which adopts, with a few limited exceptions, all of the Code of Federal Regulations, Title 40, Parts 260 to 266, Part 268, Part 270, and Part 273.

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Table 1-1

| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|------------------------|---|------------------------------|
| э270.14(b)(1) | General facility description | Attachment A ^a |
| э270.14(b)(2) | Chemical and physical analyses | Attachment B ^a |
| э270.14(b)(3) | Waste analysis plan | Attachment B ^a |
| ∋264.13(b) | Development and implementation of waste analysis plan | Attachment B ^a |
| э264.13(c) | Off-site waste analysis requirements | Attachment B ^a |
| э270.14(b)(4) | Security procedures and equipment | Attachment I |
| э264.14 | Security | Attachment I |
| э270.14(b)(5) | General inspection requirements | Attachment C ^a |
| э264.15(b) | General inspection requirements | Attachment C ^a |
| э264.174 | Container inspections | NA ^b |
| э264.193(i) | Tank inspections | NA |
| э264.195 | Overfill control inspections | NA |
| э264.226 | Surface impoundments monitoring and inspection | NA |
| э264.254 | Waste pile monitoring and inspection | NA |
| э264.273 | Land treatment design and operating requirements | NA |
| э264.303 | Landfill monitoring and inspection | NA |
| э264.347 | Incinerator monitoring and inspection | NA |
| э264.602 | Miscellaneous units | Attachment C ^a |
| э264.1033 | Process vent standards | NA |
| э264.1052 | Equipment leak air emission standards | NA |
| э264.1053 | Compressor standards | NA |
| ∍264.1058 | Standards for pumps, valves, pressure relief devices, flanges and connections | NA |
| э264.1088 | Subpart CC inspection and monitoring requirements | NA |
| ∋270.14(b)(6) | Request for waiver from preparedness and prevention requirements of 264 Subpart C | NA |
| э270.14(b)(7) | Contingency plan requirements under 264 Subpart D | Attachment E ^a |
| э264, Subpart D | Contingency plan and emergency procedures | Attachment E ^a |
| э264.227 | Surface impoundment emergency repairs; contingency plans | NA |
| э264, Subpart C | Preparedness and prevention | Attachment I |
| ∋270.14(b)(8) | Preparedness and prevention | Attachment I |

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Table 1-1 (Continued)

| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|--------------------------|--|---------------------------------|
| ∋270.14(b)(8)(i) | Prevention of hazards in unloading operations (ramps and special forklifts) | Attachment I |
| э270.14(b)(8)(ii) | Runoff prevention with berms, trenches, and dikes | 2.0 |
| э270.14(b)(8)(iii) | Prevention of contamination of water supplies | Attachment I |
| ∋270.14(b)(8)(iv) | Mitigation effects of equipment failure and power outages | Attachment I |
| ∋270.14(b)(8)(v) | Prevention of undue exposure of personnel by use of personal protective equipment | Attachment I |
| э270.14(b)(8)(vi) | Prevention of release to the atmosphere | Attachment I |
| э270.14(b)(9) | Prevention of accidental ignition or reaction | 2.0 ^a , Attachment I |
| ∋264.17 | General requirements for ignitable, reactive, or incompatible wastes | 2.0 ^ª , Attachment I |
| э264.17(с) | Documentation of compliance with 264.17 (general requirements for ignitable, reactive, or incompatible wastes) | 2.0 ^ª , Attachment I |
| э270.14(b)(10) | Traffic pattern, volume, and controls | Attachment A ^a |
| | Identification of turn lanes | Attachment A |
| | Identification of traffic/stacking lanes | Attachment A |
| | Description of road surface | Attachment A ^a |
| | Description of road load-bearing capacity | Attachment A ^a |
| | Identification of type and number of traffic controls | Attachment A |
| ∋270.14(b)(11) | Facility/unit location information | Attachment A |
| э264.18 | Location standards | Attachment A |
| э270.14(b)(11)(i) | Seismic standard applicability [264.18(a)] | Attachment A |
| э270.14(b)(11)(ii) | Seismic standard requirements | Attachment A |
| ∋270.14(b)(11)(ii)(A) | No fault within 3,000 feet (ft) with displacement in Holocene time | NA |
| э270.14(b)(11)(ii)(A)(1) | Published geological studies | NA |
| ∋270.14(b)(11)(ii)(A)(2) | Aerial reconnaissance of a five-mile radius from the facility | NA |
| ∋270.14(b)(11)(ii)(A)(3) | Analysis of aerial photographs covering 3,000-ft radius from the facility/unit | NA |
| ∋270.14(b)(11)(ii)(A)(4) | Reconnaissance based on walking portions of the area within 3,000 ft of the facility | NA |

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Table 1-1 (Continued)

| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|--------------------------|---|------------------------------|
| ∋270.14(b)(11)(ii)(B) | If faults which have displacement in Holocene time are present within 3,000 ft, no faults pass within 200 ft of portions of the facility where treatment, storage, or disposal will be conducted | NA |
| э270.14(b)(11)(iii) | 100-year floodplain standard | Attachment A ^a |
| ∋270.14(b)(11)(iv) | If facility is within 100-year floodplain | NA |
| ∋270.14(b)(11)(iv)(A) | Engineering analyses of hydrostatic forces expected in a 100-year flood | NA |
| ∋270.14(b)(11)(iv)(B) | Structural engineering studies for flood protection to prevent washout | NA |
| ∋270.14(b)(11)(iv)(C) | Detailed description of procedures to remove hazardous waste to safety before flood reaches the waste | NA |
| э270.14(b)(11)(iv)(C)(1) | Timing of removal | NA |
| ∋270.14(b)(11)(iv)(C)(2) | Location to be moved to | NA |
| ∋270.14(b)(11)(iv)(C)(3) | Dedicated equipment and personnel to ensure removal | NA |
| э270.14(b)(11)(iv)(C)(4) | Potential for accidental discharge during movement | NA |
| ∋270.14(b)(11)(v) | Plan to show how the facility will be brought into compliance with 264.18(b) | NA |
| э270.14(b)(12) | Personnel training program | Attachment D ^a |
| э270.14(b)(13) | Closure and post-closure plans | Attachment F ^a |
| э264.112 | Amendment of closure plan | Attachment F ^a |
| э264.118 | Post-closure plan; amendment of plan | Attachment F ^a |
| э264.178 | Closure/containers | NA |
| э264.197 | Closure/tanks | NA |
| э264.228 | Closure/post-closure/surface impoundments | NA |
| э264.258 | Closure/post-closure/waste piles | NA |
| э264.280 | Closure/post-closure/land treatment | NA |
| э264.310 | Closure/post-closure/landfills | NA |
| э264.351 | Closure/incinerators | NA |
| ∋264.601 | Miscellaneous units | Attachment F ^a |
| ∋264.603 | Post-closure care | Attachment F ^a |
| э270.14(b)(14) | Post-closure notices (264.119) | Attachment F ^a |
| ∋270.14(b)(15) | Closure cost estimate (264.142) | Attachment F ^a |

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| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|------------------------|-------------------------------|------------------------------|
| | Financial assurance (264.143) | Attachment F ^a |

Table 1-1 (Continued)

| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|------------------------|---|------------------------------|
| э270.14(b)(16) | Post-closure cost estimate (264.144) | Attachment F ^a |
| | Post-closure care financial assurance (264.145) | Attachment F ^a |
| э270.14(b)(17) | Liability insurance (264.147) | Attachment F ^a |
| ∋270.14(b)(18) | Proof of financial coverage (264.149-150) | Attachment F ^a |
| ∋270.14(b)(19) | Topographic map requirements | Attachment A ^c |
| ∋270.14(b)(19)(i) | Map scale and date | Attachment A ^c |
| ∋270.14(b)(19)(ii) | 100-year floodplain | Attachment A ^a |
| ∋270.14(b)(19)(iii) | Surface waters | Attachment A |
| ∋270.14(b)(19)(iv) | Land use | Attachment A |
| ∋270.14(b)(19)(v) | Wind rose | Attachment A |
| ∋270.14(b)(19)(vi) | Map orientation | Attachment A ^c |
| ∋270.14(b)(19)(vii) | Legal boundaries | Attachment A |
| ∋270.14(b)(19)(viii) | Access controls | Attachment A |
| ∋270.14(b)(19)(ix) | Wells | Attachment A |
| ∋270.14(b)(19)(x) | Buildings | Attachment A |
| | Treatment, storage, and disposal operations | Attachment A |
| | Run-on/run-off control systems | 2.0, Attachment A |
| | Storm sewer systems | Attachment A ^a |
| | Sanitary sewer systems | Attachment A ^a |
| | Process sewer systems | Attachment A ^a |
| | Loading/unloading areas | Attachment A |
| | Fire control facilities | Attachment A ^a |
| ∋270.14(b)(19)(xi) | Drainage barriers | 2.0, Attachment A |
| ∋270.14(b)(19)(xii) | Location of operational units | 2.0, Attachment A |
| ∋270.14(b)(20) | Other federal laws | 3.0 ^a |
| э270.3(a) | Wild and Scenic Rivers Act | 3.0 ^a |
| э270.3(b) | National Historic Preservation Act | 3.0 ^a |

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| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|------------------------|----------------------------|------------------------------|
| э270.3(c) | Endangered Species Act | 3.0 ^a |
| 921 0.0(0) | | 0.0 |

Table 1-1 (Continued)

| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|------------------------|---|--|
| э270.3(d) | Costal Zone Management | 3.0 ^a |
| э270.3(e) | Fish and Wildlife Coordination Act | 3.0 ^a |
| э270.3(f) | Executive Orders | 3.0 ^a |
| э270.14(b)(21) | Notice of extension approval for land disposal facilities | NA |
| э270.14(c) | Groundwater monitoring requirements | Attachment A ^{a,} Attachment H |
| э270.14(c)(1) | Groundwater monitoring under 265.90 through 265.94 | NA |
| ∋270.14(c)(2) | Identification of uppermost aquifer, groundwater flow rate and direction | Attachment H |
| ∋270.14(c)(3) | A topographic map required under 270.14(b)(19) that identifies proposed point of compliance | NA |
| | Proposed location of groundwater monitoring wells under 264.97. | Attachment H |
| ∋270.14(c)(4) | Description of plume of contamination that has entered groundwater | NA |
| ∋270.14(c)(4)(i) | Extent of plume indicated on topographic map | NA |
| ∋270.14(c)(4)(ii) | Identification of constituents and concentration for Appendix IX of 264 | NA |
| ∋270.14(c)(5) | Detailed plan and an engineering report describing proposed groundwater monitoring program under 264.97 | NA |
| ∋270.14(c)(6) | No releases detected in groundwater (264.98) | NA |
| ∋270.14(c)(6)(i) | List of proposed indicator parameters | NA |
| ∋270.14(c)(6)(ii) | Proposed groundwater monitoring system | NA |
| ∋270.14(c)(6)(iii) | Background values for each proposed monitoring parameter | NA |
| ∋270.14(c)(6)(iv) | Description of proposed sampling, analyses and statistical comparisons to be used | NA |
| ∋270.14(c)(7) | Release detected at point of compliance requires corrective action under 264.100 | NA |
| ∋270.14(d) | Information requirements for solid waste management units (SWMU) | 4.0 |
| ∋270.14(d)(1)(i) | Location of SWMUs on topographic map | 4.0 |
| ∋270.14(d)(1)(ii) | Types of SWMUs | 4.0 |

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| Regulatory Citation(s) | Description of Requirement | Location in this Document | |
| э270.14(d)(1)(iii) | Dimensions and descriptions of SWMUs | 4.0 | |
| ∋270.14(d)(1)(iv) | Dates of operation | 4.0 | |

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Table 1-1 (Continued)

Regulatory References and Corresponding Permit Application Location

| Regulatory Citation(s) | Description of Requirement | Location in this Document |
|------------------------|---|------------------------------|
| э270.14(d)(1)(v) | Waste types managed at SWMU | 4.0 |
| ∋270.14(d)(2) | Information on releases from SWMUs | 4.0 |
| э270.15 | Containers | NA |
| э270.16 | Tank systems | NA |
| э270.16(a) | Written assessment and certification | NA |
| ∋270.16(b) | Capacity/dimensions | NA |
| э270.16(c) | Systems and controls | NA |
| ∋270.16(d) | Piping and process flow | NA |
| э270.16(e) | External corrosion protection | NA |
| ∋270.16(f) | Installation | NA |
| э270.16(g) | Secondary containment system | NA |
| ∋270.16(h) | Request for variance from secondary containment | NA |
| э270.16(i) | Spill prevention | NA |
| э270.16(j) | Ignitable, reactive, or incompatible wastes | NA |

^a Requirement or information is also addressed in the "Los Alamos National Laboratory General Part B Permit Application," Revision 1.0 (LANL, 1998a), as appropriate.

^b NA = not applicable.

^c Some of the topographic map requirements are addressed in the "Los Alamos National Laboratory General Part A Permit Application," Revision 0.0 (LANL, 1998b).

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2.0 TREATMENT BY OPEN DETONATION

The information provided in this section is submitted to address the applicable miscellaneous unit requirements of the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 270.23, and 20 NMAC 4.1, Subpart V, Part 264, Subpart X, revised January 1, 1997 [1-1-97], as well as thermal treatment unit requirements in 20 NMAC 4.1, Subpart VI, Part 265, Subpart P [1-1-97]; and to provide additional instructive data that may expedite the permitting process. This section presents a brief description of the Technical Area (TA) 36 open detonation (OD) unit as well as information on waste management practices, operating requirements, and treatment effectiveness. Requirements for ignitable, reactive, and incompatible wastes and for inspections are also discussed. In addition, information on risk assessment; nearby archeological sites; and noise, minimum distance, and ground vibration is presented in this section. A summary of applicable miscellaneous unit regulatory references and the corresponding location where the requirement is addressed in this permit application is presented in Table 2-1.

2.1 <u>HAZARDOUS WASTE OD UNIT NEAR TA-36, BUILDING 8</u> [20 NMAC 4.1, Subpart IX, 270.23; 20 NMAC 4.1, Subpart V, Part 264, Subpart X; and 20 NMAC 4.1, Subpart VI, Part 265, Subpart P]
 A description of the TA-36 OD unit at Los Alamos National Laboratory (LANL) is provided below. The description includes the location, the physical parameters, and the maximum treatment capacity of the OD unit.

The OD unit located near TA-36, Building 8 (TA-36-8), may be used to treat solid and liquid hazardous explosive waste, including unexploded ordnance. A list of waste explosives that may be treated by OD at the TA-36 unit is presented in Supplement 2-1. Supplement 2-1 is provided for informational purposes; it is not intended for inclusion in the permit. The OD unit consists of an irregularly-shaped, sand- and grass-covered area (Figure 2-1) that measures approximately 500 feet east to west and 300 feet north to south. The western portion is relatively flat; the eastern portion is concave to minimize fragment dispersion. Because the OD unit consists simply of an area on soil-covered tuff, an engineering drawing cannot be developed for the unit. The topography and areal extent of the unit are shown on Figure A-2 in Attachment A.

The sandy soils at the TA-36 site are highly absorbent, thus minimizing storm water runoff potential and reducing the likelihood of hydraulic head being created to drive waste constituents into the vadose zone. Existing storm water controls include a run-on diversion channel to divert upstream flow around the western area of the treatment unit, a berm east of the western area of the treatment unit, a bermed area surrounding the eastern portion of the treatment unit, and good housekeeping (e.g., keeping the diversion channel free of debris). The diversion channel and berms are inspected routinely and maintained, as necessary. The paved road just northwest of the eastern area of the treatment unit slopes northward and also helps to divert potential run-on away from the unit. Drainage control features near the TA-36 OD unit are shown on Figure A-8 in Attachment A.

The OD unit has a maximum treatment capacity of 2,000 pounds of explosive waste per detonation. The unit is used primarily for nontreatment-related experimental test detonations and may occasionally be used for treatment of hazardous explosive waste. Following waste placement at the unit, detonation operations are conducted from TA-36-8, the control building. Operations at the OD unit require post-detonation visual surveys as soon as practical for materials not consumed by the detonation. This practice minimizes the potential for precipitation contacting untreated hazardous waste, if any. Since Resource Conservation and Recovery Act (RCRA) Subtitle C regulations became effective in November 1980, an average of approximately 5,000 pounds of waste has been treated annually at the TA-36 OD unit; however, in recent years, the amount of waste treated has been much less than 5,000 pounds annually.

The wastes treated are both homogeneous (e.g., solid explosives, scrap explosives) and heterogeneous (e.g., explosives-contaminated paper, rags, wood). These wastes have been assigned the following potential U.S. Environmental Protection Agency (EPA) Hazardous Waste Numbers: D003 for reactivity; D005 for barium (which in the form of barium nitrate or barium carbonate is a common component of some explosives); D006 for cadmium; D007 for chromium; D008 for lead; D009 for mercury; D010 for selenium; D011 for silver; and D030 for 2,4-dinitrotoluene. Historically, there have been no significant changes in waste compositions. The wastes are treated to remove the characteristic of reactivity, although other characteristic hazardous waste (e.g., toxicity for barium) may be present in the wastes being treated. Nonreactive wastes may be treated at the OD unit at TA-36 to desensitize or declassify the waste. Ancillary components (e.g., containers, housing, and casings) used during waste treatment consist of nonhazardous materials only (e.g., aluminum, plastic).

2.2 <u>WASTE MANAGEMENT PRACTICES</u> [20 NMAC 4.1, Subpart V, Part 264, Subpart X]

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There are two basic categories of explosives that may be managed at the TA-36 OD unit. The first category consists of explosives-contaminated waste; the second category consists of explosive material.

Explosives-contaminated waste includes make-up room wastes and firing site debris. Make-up room waste consists of explosives-contaminated waste, such as paper towels, swabs, and similar materials that contain no tangible pieces of explosives but are used in the preparation of shots in the make-up building. Firing site debris that is potentially contaminated with explosives consists of wood scraps, cardboard, burlap, Plexiglas9/Lexan9, plastic, glass, styrofoam, electrical cables, and metallic foils used for pin switches or metals such as target plates. Firing site debris also includes corrective action wastes or wastes generated as a result of investigation or remediation.

Explosive material includes identifiable scrap explosives that are safe to handle. It includes explosives assemblies and explosives, identifiable booster charge scrap, and any other process or cleanup wastes that are believed to be potentially reactive.

Waste containers for explosives-contaminated waste and explosive material generally consist of plastic bags or paper-lined cardboard boxes. Most explosives-contaminated waste and actual pieces of explosives are typically not packaged together; however, depending on their composition, some of these wastes may occasionally be packaged together. Explosives-contaminated waste will be placed within a container, sealed, and labeled appropriately. These waste containers will then be stored in a less-than-90-day storage area or a satellite accumulation area. Pieces of damaged explosives resulting from a misfire, sensitivity experiment, incomplete detonation, or exposure to severe testing will be packaged separately from excess explosives. Exceptions to handling will be done on special items, which will be handled safely and appropriately.

OD operations are conducted in accordance with the most recent, approved versions of LANL standard operating procedures (SOP) (see Attachment G). Waste to be treated is collected from various accumulation areas at the facility. When loading waste, the cargo compartment of the transport vehicle(s) is checked to ensure that it is clean and contains no loose items such as tools or pieces of metal. For transport, the wastes are placed in an enclosed compartment or secured with tie-downs. The load limit for transporting explosives is determined by the capacity of the transport vehicle(s). Wastes are transported by appropriately trained personnel in a designated vehicle(s) to the OD unit. Only the amount of waste that can be treated in one day is transported to the unit. The

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waste is unloaded from the vehicle(s) and placed at the OD location by qualified technicians/specialists. A visual examination is conducted after unloading to ensure that no explosive material remains in the transport vehicle(s). Depending on preparation activities, the time during which waste may remain at the unit is typically several hours; however should operational or meterological conditions change rapidly and unexpectedly, the waste may remain at the unit for a day or more until conditions improve and treatment can be conducted. Preparation room operations and explosives charge handling and assembly are addressed in DX-4:SOP 05; packaging and transportation procedures are presented in DX-DO:SOP-3. OD of waste is accomplished by using a predetermined amount of explosive to initiate the detonation. The detonation may create temperatures up to 3,000 degrees Fahrenheit (1,649 degrees Celsius). Initiation for all waste treatment operations is performed remotely by qualified personnel from inside a control building.

LANL minimizes the impact to the environment by conducting treatment operations in strictly controlled, remote areas within the LANL boundaries. Treatment operations are not conducted during adverse conditions (see Attachment H, AEnvironmental Performance Standards≅) in order to minimize wind dispersal of ash and particulate matter to the environment. Releases of propellants, explosives, or pyrotechnics are minimized by following appropriate SOPs (see Attachment G) to ensure maximum detonations and to minimize misfires. Trained operators ensure that sufficient and appropriate initiating explosives are used so that these materials detonate rather than deflagrate. Any deflagrating material is carefully collected for detonation. Residues (metallic shards and occasional pieces of propellants, explosives, or pyrotechnics) are managed in accordance with SOPs for the OD unit; the SOPs require a thorough survey of the area after each detonation and collection of all identifiable pieces of material not consumed by the detonation. Materials not consumed during a detonation are collected for treatment only after the firing site leader ensures that the area is safe.

2.3 <u>OPERATING REQUIREMENTS</u> [20 NMAC 4.1, Subpart VI, Subpart P]

Treatment of hazardous waste at the TA-36 OD unit is conducted using a noncontinuous [batch] thermal treatment process, in accordance with the requirements specified in 20 NMAC 4.1, Subpart VI, 265.373 [1-1-97]. OD of wastes at the TA-36 OD unit will be conducted in a manner that does not threaten human health or the environment. Based on the unit=s maximum 2,000-pound treatment capacity, a minimum required distance of 1,730 feet will be maintained between the point of detonation and the property of others, as required in 20 NMAC 4.1, Subpart VI, 265.382 [1-1-97].

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2.4 TREATMENT EFFECTIVENESS [20 NMAC 4.1, Subpart IX, 270.23(d)]

To address the applicable miscellaneous unit requirement specified in 20 NMAC 4.1, Subpart IX, 270.23(d) [1-1-97], a demonstration of treatment effectiveness must be included for the TA-36 OD unit. As indicated in the U.S. Army Environmental Hygiene Agency (AEHA) guidance document titled "RCRA Part B Permit Writer's Guidance Manual for Department of Defense Open Burning/Open Detonation Units" (AEHA, 1987), a demonstration of treatment effectiveness can be based on laboratory or field data. For wastes treated by OD, information demonstrating that any residues or fragments remaining after the detonation are not reactive (i.e., as defined by RCRA) should be provided. At the TA-36 OD unit, if any waste remains after the initial treatment, it is treated again to ensure that any residues or fragments remaining are not reactive. The area is visually inspected and explosive remnants are treated in place in conjunction with safety practices and SOPs.

2.5 <u>IGNITABLE, REACTIVE, AND INCOMPATIBLE WASTES</u> [20 NMAC 4.1, Subpart V, 264.17(a)]

Ignitable wastes are not treated at the TA-36 OD unit. Applicable requirements for the management of reactive and incompatible wastes will be met at the TA-36 OD unit. Pursuant to the requirements of 20 NMAC 4.1, Subpart IX, 270.14(b)(9) [1-1-97], a description of the precautions exercised by personnel at the unit to prevent accidental ignition or reaction of wastes is included in Attachment I (AProcedures to Prevent Hazards≅) of this Part B permit application.

2.6 INSPECTION [20 NMAC 4.1, Subpart V, 264.15]

In accordance with the requirements of 20 NMAC 4.1, Subpart V, 264.15 [1-1-97], the TA-36 OD unit will be inspected daily when in use (i.e., when wastes are managed at the unit) and weekly when not in use. Inspection parameters are specified in Appendix C of the LANL General Part B (LANL, 1998a). Inspection records will be maintained by responsible personnel and a copy of the record will be sent weekly, as appropriate, to LANL's Hazardous and Solid Waste Group.

2.7 RISK ASSESSMENT

An evaluation of human health risks was conducted and includes a complete description of available on-site analytical data and off-site modeled concentrations (including those for surface soil and air). This evaluation also included an exposure assessment (with potential receptors and complete exposure pathways), a toxicity assessment, and a risk characterization which, together, assess the potential cumulative impact on human health and the environment as a result of operations at the

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TA-36 OD unit. The evaluation of human health risks is included in Attachment J of this document, and includes both hazard quotients and incremental lifetime cancer risks. An estimate of the individual excess lifetime cancer risk is summarized in Table J-6 of Attachment J. The potential receptors at TA-36 include residential, occupational, and recreational. An evaluation of complete and incomplete exposure pathways for each of the potential receptors is also presented in Attachment J. For OD operations at TA-36, the primary receptor is an on-site worker.

An evaluation of ecological pathways and predicted risk is also presented in Attachment J. The ecological receptors selected include: a non-specific perennial plant, vagrant shrew (insectivore), western harvest mouse (omnivore), montane vole (herbivore), gray fox (omnivore/carnivore), American kestrel (insectivore), and Mexican spotted owl (carnivore). Using the 95 percent upper confidence limit of the mean concentration, potential ecological risk was only predicted for the vagrant shrew, harvest mouse, and montane vole exposed to 2,4-dinitrotoluene; for the montane vole exposed to HMX; for the American kestrel exposed to di-n-butyl phthalate; and for the Mexican spotted owl exposed to bis-2-ethylhexyl phthalate. TA-36 is not utilized by domestic animals or crops. Surface water associated with the site consists of infrequent runoff and was not evaluated as a source of drinking water.

Potential receptors are evaluated in Attachment J. For the human health evaluation, the only receptors are LANL employees. Calculations of lifetime cancer risk are summarized in Table J-6 of Attachment J. Included in these calculations are risks to on-site personnel during routine operations using on-site analytical data, and risks to off-site personnel using available air modeling concentrations. All major exposure pathways are included in the risk calculations. For surface soil, these pathways include ingestion, dermal contact, and inhalation of fugitive dust. A complete description of the exposure models used in the risk calculations is also provided in Attachment J. Several ecological receptors occupying different trophic levels were used in the ecological risk assessment for TA-36. In each instance, the lower value of either the maximum detected concentration in soil or the 95 percent upper confidence limit of the mean concentration was used as the exposure concentration.

2.8 ARCHEOLOGICAL SITES

A brief historical description of TA-36 and the OD unit is provided in Attachment A of this document. There are 23 archeological sites within a 1,200-foot radius of the OD unit; the closest site is approximately 263 feet from the unit (Larson and McClure, 1996).

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2.9 NOISE, MINIMUM DISTANCE, AND GROUND VIBRATION CONSIDERATIONS

Noise resulting from treatment activities is controlled by conducting treatment in a remote area within LANL boundaries. Impulse noise measurements were made at the control building (TA-36-8) for the OD unit during the detonation of explosives on three separate occasions in 1997. On two of those occasions, impulse noise measurements were also made at a location approximately 0.75 miles from the OD unit. The noise data are provided in Supplement 2-2.

On April 3, 1997, the noise levels of a 500-pound detonation were recorded at the two locations. The reading in the control building was 126 decibels (dB), and the distant reading was 135 dB; there was a cloud cover during this event. A 250 to 300-pound detonation was conducted at the TA-36 OD unit on April 24, 1997. The noise level recorded at the distant location was 114 dB; a light cloud cover was present during this event. Impulse noise measurements were also made at the two locations during an 800-pound detonation on June 5, 1997. The reading in the control building was 132 dB, and the distant reading was 139 dB.

Although noise level readings were not taken beyond the distant location, it is reasonable to assume that the noise level exposure to the nearest public receptor nearly 9,000 feet away would also be within acceptable limits. Workers involved in actual OD operations are stationed in the control building during detonation and, based on the levels measured, would receive exposure between approximately 126 and 132 dB, which is below the occupational exposure limit of 140 dB set by the American Conference of Governmental Industrial Hygienists.

LANL fully meets the minimum distance requirements of 20 NMAC 4.1, Subpart VI, 265.382 [1-1-97]. The maximum amount of waste that can be treated at the OD unit at TA-36 is 2,000 pounds; this amount requires a minimum distance of 1,730 feet from the property of others, per 20 NMAC 4.1, Subpart VI, 265.382 [1-1-97]. As can be seen on Figure A-2 of Attachment A, LANL maintains a safe distance greatly exceeding the minimum required distance.

LANL does not measure ground vibration during OD treatment operations. Due to the unit's remote location and the infrequency of treatment operations (an approximate average of 12 OD treatment operations per year), potential impacts to human health and the environment resulting from ground vibration are reasonably assumed to be minimal.

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2.10 <u>RECORDKEEPING REQUIREMENTS</u> [20 NMAC 4.1, Subpart V, Part 264, Subpart E] Recordkeeping requirements applicable to the TA-36 OD unit are discussed in the following sections.

2.10.1 Biennial Report [20 NMAC 4.1, Subpart V, 264.75]

LANL will prepare and submit a biennial report to the New Mexico Environment Department (NMED) by March 1 of each even-numbered year. The biennial report will be submitted to the NMED on EPA Form 8700-13B (revised July 1997 or update). The report will cover facility activities during the previous calendar year and will include:

- X The EPA identification number, name, and address of the facility;
- X The calendar years covered by the report;
- X A description and the quantity of each hazardous waste the facility received during the year;
- X The method of treatment, storage, or disposal for each hazardous waste;
- X For generators who treat, store, or dispose of hazardous waste on site, a description of the efforts undertaken during the year to reduce the volume and toxicity of waste generated;
- X For generators who treat, store, or dispose of hazardous waste on site, a description of the changes in volume and toxicity of waste actually achieved during the year in comparison to previous years to the extent such information is available for the years prior to 1984; and
- X The certification signed by LANL or an authorized representative.

2.10.2 Unmanifested Waste Report [20 NMAC 4.1, Subpart V, 264.76]

Waste from off-site sources may be accepted on a limited basis at LANL provided that such waste is properly characterized and manifested and meets the requirements listed in Section 2.1.5 of the LANL General Part B (LANL, 1998a). If LANL accepts any wastes for treatment or storage from an off-site facility without an accompanying manifest, or without an accompanying shipping paper as described in 20 NMAC 4.1, Subpart V, 264.76 [1-1-97], LANL will prepare and submit an Unmanifested Waste Report (EPA Form 8700-131B) to NMED within fifteen days after receiving the waste. The report will include the following:

X The EPA identification number, name, and address of the facility;

- X The date the facility received the waste;
- X A description and the quantity of each unmanifested hazardous waste a facility received;
- X The method of treatment, storage, or disposal for each hazardous waste;
- X The certification signed by LANL or an authorized representative; and
- X A brief explanation of why the waste was unmanifested, if known.

2.10.3 Additional Reports [20 NMAC 4.1, Subpart V, 264.77]

In accordance with the requirements of 20 NMAC 4.1, Subpart V, 264.77 [1-1-97], LANL will also report the following to the NMED:

- X Releases and unanticipated fires and explosions that require implementation of the contingency plan, as specified in 20 NMAC 4.1, Subpart V, 264.56(j) [1-1-97]
- X Facility closures, as specified in 20 NMAC 4.1, Subpart V, 264.115 [1-1-97]
- X As otherwise required by 20 NMAC 4.1, Subpart V, Part 264, Subparts F, BB, and CC [1-1-97].

Table 2-1

Miscellaneous Unit Regulatory References and Corresponding Permit Application Location

| Regulatory Citation(s) | Description of Requirement | Location in this Permit Application |
|------------------------|---|--|
| э264.601(a) | Prevention of release of contaminants to groundwater | Attachment H |
| ∋264.601(a)(1) | Volume and characteristics of waste considering potential for migration through containing structures | 2.0, Attachment H |
| ∋264.601(a)(2) | Hydrologic/geologic characteristics | Attachment H |
| ∋264.601(a)(3) | Quality of groundwater including other sources of contamination and their cumulative impact on groundwater | Attachment H |
| э264.601(a)(4) | Quantity and direction of groundwater flow | Attachment H |
| ∋264.601(a)(5) | Proximity to and withdrawal rates of potential groundwater users | Attachment H |
| ∋264.601(a)(6) | Regional patterns of land use | Attachment A, Attachment H |
| ∋264.601(a)(7) | Potential for deposition and migration of waste constituents | Attachment H |
| ∋264.601(a)(8) | Potential for health risks caused by human exposure to waste constituents | Attachment J |
| ∋264.601(a)(9) | Potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents | Attachment H, Attachment J |
| ∋264.601(b) | Prevention of release of contaminants to surface water | Attachment H |
| э264.601(b)(1) | Volume and characteristics of the waste | 2.0, Attachment H |
| ∋264.601(b)(2) | Effectiveness and reliability of containment, confinement, and collection systems and structures | 2.0 |
| э264.601(b)(3) | Hydrologic characteristics of the unit and local area | Attachment H |
| э264.601(b)(4) | Regional precipitation patterns | Attachment H |
| э264.601(b)(5) | Quantity, quality, and direction of groundwater flow | Attachment H |
| ∋264.601(b)(6) | Proximity of the unit to surface water | Attachment A, Attachment H |
| ∋264.601(b)(7) | Current and potential uses of nearby surface waters and water quality standards for those waters | Attachment H |
| ∋264.601(b)(8) | Quality of surface waters and soils including other sources of contamination and their cumulative impact on surface waters and soils | Attachment H |

Refer to footnote at end of table.

Table 2-1 (Continued)

Miscellaneous Unit Regulatory References and Corresponding Permit Application Location

| Regulatory Citation(s) | Description of Requirement | Location in this Permit Application |
|------------------------|---|--|
| э264.601(b)(9) | Regional patterns of land use | Attachment A |
| э264.601(b)(10) | Potential for health risks caused by human exposure to waste constituents | Attachment J |
| ∋264.601(b)(11) | Potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents | Attachment H, Attachment J |
| э264.601(c) | Prevention of release of contaminants to air | Attachment H |
| э264.601(c)(1) | Volume and characteristics of waste including its potential for emission | 2.0, Attachment H |
| ∋264.601(c)(2) | Effectiveness and reliability of systems/structures to reduce/prevent emissions of hazardous constituents to the air | 2.0, Attachment H |
| э264.601(c)(3) | Operating characteristics of the unit | 2.0, Attachment H |
| э264.601(c)(4) | Characteristics of the unit and the surrounding area | 2.0, Attachment H |
| э264.601(c)(5) | Existing quality of the air including other sources of contaminants and their cumulative impact on the air | Attachment H |
| э264.601(c)(6) | Potential health risks caused by human exposure to waste constituents | Attachment J |
| ∋264.601(c)(7) | Potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents | Attachment H, Attachment J |
| э264.602 | Monitoring, analysis, inspection, response, reporting, and corrective action | 2.0, 4.0, Attachment H |
| э264.603 | Post-closure care | Attachment F ^a |
| э264.15 | General inspection requirements | Attachment C ^a |
| э264.33 | Testing and Maintenance of Equipment | Attachment I |
| э264.75 | Biennial report | 2.0 |
| э264.76 | Unmanifested waste report | 2.0 |
| э264.77 | Additional reports | 2.0 |
| э264.101 | Corrective action for solid waste management units | 4.0 |

^a Requirement or information is also addressed in the "Los Alamos National Laboratory General Part B Permit Application," Revision 1.0 (LANL, 1998a), as appropriate.



Figure 2-1 Location Map Showing the Open Detonation Unit near Technical Area (TA) 36, Building 8

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SUPPLEMENT 2-1

Waste Explosives Detonated at Technical Area 36

(This supplement is provided for informational purposes only.)

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| Explosives | Other Names, Compositions, or Reference |
|----------------|---|
| AN | Ammonium nitrate |
| DATB | Diaminotrinitrobenzene |
| DINGU | Dinitroglycoluril |
| DINA | Di(nitroethyl) nitramine, Dioxyethyl dinitrate |
| EDNA | Ethylenedinitramine, Halite |
| НМХ | Cyclotetramethylenetetranitramine, Octogen |
| LAX-112 | Bis-diaminotetrazine N-oxide |
| NQ | Nitroguanidine, Picrite |
| NTO | 1,2,4-Nitro-tiazole-5-one |
| PETN | Pentaerythritoltetranitrate |
| Picric Acid | 1,3,5-TrinitrophenolNote: Picric acid forms impact-sensitive compounds with metal ions. |
| RDX | Cyclo-1,3,5-trimethylene-2,4,6-trinitramine; Hexogen, Cyclonite |
| ТАТВ | 1,3,5-Triamino-2,4,6-trinitrobenzene |
| Tetryl | 2,4,5-Trinitrophenylmethylnitramine |
| HNS | Hexanitrostilbene |
| TNT | 2,4,6-Trinitrotoluene; Trotyl |
| FEFO | 1,1'[Methylene bis(oxy)]bis[2-fluoro-2,2-dinitroethane] |
| NM | Nitromethane |
| ANFO | Ammonium nitrate/fuel oil |
| Boracitol | 60 wt% Boric acid/40 wt% TNT |
| Baratol | 76 wt% Barium nitrate/24 wt% TNT |
| Calcitol | 40 wt% TNT/55-60 wt% CaCO ₃ /0-2 wt% Talc/1-2 wt% Microballoons, X-0533 |
| CH-6 | 97.5 wt% RDX/1.5 wt% Calcium stearate/0.5 wt% Polyisobutylene/0.5 wt% Graphite |
| Comp. A | 91 wt% RDX/9 wt% Beeswax |
| Comp. A-2 | 91 wt% RDX/9 wt% Synthetic wax |
| Comp. A-3 | 9085, 91 wt% RDX/9 wt% Beeswax |
| Comp. A-4 | 97 wt% RDX/3 wt% Beeswax |
| Comp. A-5 | 98.5 wt% RDX/1.5 wt% Beeswax |
| Comp. B | 64 wt% RDX/36 wt% TNT, Comp B, Hexolite, Hexotol |
| Comp. B-3 | 60 wt% RDX/40 wt% TNT |
| Comp. C-3 | 9080, 88 wt% RDX/12 wt% Wax |
| Comp. C-4 | 9081, 91 wt% RDX/2.1 wt% Polyisobutylene/1.6 wt% Motor oil/5.3 wt% Di(2-ethylhexyl) sebacate |
| Cyclotol 75/25 | 75 wt% RDX/25 wt% TNT |

Waste Explosives Detonated at the TA-36 OD Unit

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| Explosives | Other Names, Compositions, or Reference |
|----------------|---|
| Cyclotol 70/30 | 70 wt% RDX/30 wt% TNT |
| Detasheet C | 63 wt% PETN/8 wt% NC/29 wt% Elastomeric binder |
| Detasheet D | 75 wt% PETN/25 wt% Elastomeric binderNote: This material is usually red, but it is an explosive, not an inert material. |
| EDC-8 | 76.0 wt% PETN/24.0 wt% RTV Silicone |
| EDC-28 | 94 wt% RDX/6 wt% FPC 461 |
| EDC-32 | 85 wt% HMX/15 wt% Viton A |
| EDC-37 | 91 wt% HMX/1 wt% Nitrocellulose/8 wt% K-10 Liquid |
| EDC-38 | 94.5 wt% HMX/3.5 wt% K-10 Liquid/2 wt% Polyurethane |
| HBX-1 | 40 wt% RDX/38 wt% TNT/17 wt% Al/4.5 wt% Wax/0.5 wt% CaCl $_{\rm 2}$ |
| LX-04 | 85.5 wt% HMX/15.0 wt% Viton A |
| LX-07 | 90 wt% HMX/10 wt% Viton A |
| LX-10 | 95.0 wt% HMX/5.0 wt% Viton A |
| LX-14 | 95.5 wt% HMX/4.5 wt% Estane 5702-F1 (X-0282) |
| MDF | Mild Detonating Fuse |
| Nonel | RDX-Lined Metal Tubing |
| Octogen | 94.5 wt% HMX/4.5 wt% Wax/1 wt% Graphite |
| Octol | 75 wt% HMX/25 wt% TNT |
| PBX 9001 | 90 wt% RDX/8.5 wt% Polystyrene/1.5 wt% Dioctyl phthalate |
| PBX 9007 | 90 wt% RDX/9.1 wt% Polystyrene/0.5 wt% Dioctyl phthalate/0.4 wt% Resin |
| PBX 9010 | 90 wt% RDX/10 wt% Kel-F 3700 Elastomer |
| PBX 9011 | 90 wt% HMX/10 wt% Estane-5703 F-1 |
| PBX 9205 | 92 wt% RDX/6 wt% Polystyrene/2 wt% Dioctyl phthalate |
| PBX 9206 | 92 wt% HMX/8 wt% Kel-F 3700 Elastomer |
| PBX 9404 | 94 wt% HMX/3 wt% NC/3 wt% Tris(b-chloroethyl) phosphateNote: PBX-9404 is unusually sensitive to certain types of impact, in particular, skidding. |
| PBX 9401 | 94.2 wt% RDX/3.6 wt% Polystyrene/2.2 wt% Trioctyl phosphate |
| PBX 9405 | 93.7 wt% HMX/3.15 wt% Nitrocelulose/3.15 wt% Tricloroethyl phosphate |
| PBX 9407 | 94 wt% RDX/6 wt% Exon-461 |
| PBX 9501 | 95 wt% HMX/2.5 wt% Estane/2.5 wt% BDNPA or BDNPF, X-0242 |
| PBX 9502 | 95 wt% TATB/5 wt% Kel-F 800, X-0290 |
| PBX 9503 | 80 wt% TATB, superfine/15 wt% HMX/5 wt% Kel-F 800, X-0351 |
| PBXN-5 | See LX-10 |

Waste Explosives Detonated at the TA-36 OD Unit (Continued)

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| Explosives | Other Names, Compositions, or Reference |
|---|---|
| PBXN-9 | 92 wt% HMX, 2 wt% Hycar 4454 (Hytemp 4454), 6 wt% Dioctyl Adipate (DOA) |
| PBXN-110 | 88 wt% HMX/5.4 wt% Polybutadiene/5 wt% Isodecyl pelargonate |
| PBXW-113 | See PBX N110 |
| Primacord | Assorted PETN & RDX Loaded Commercial Detonating Fuse |
| Pentolite | 50 wt% PETN/50 wt% TNT |
| Tritonal | 80 wt% TNT/20 wt% Aluminum powder |
| X-0208 | See XTX-8004 |
| X-0233 | 5-40 wt% HMX; 40-95 wt% Tungsten, 0-10 wt% Polystyrene, 0- 5 wt% Plasticizer |
| X-0242 | See PBX 9501 |
| X-0282 | See LX-14 |
| X-0290 | See PBX 9502 |
| X-0309 | 75% TNT, 19% Aluminum powder, 5% D-2 Wax, 1% Acetylene black (carbon) |
| X-0351 | See PBX 9503 |
| X-0407 | 69.8 wt% TATB/25.0 wt% PETN/0.2 wt% Dye/5 wt% Kel-F 800 |
| X-0533 | See Calcitol |
| X-0534 | 50 wt% TNT/16-24 wt% CaCO ₃ /25-33 wt% Talc/1-2 wt% Microballoons |
| XTX-8003 | 80 wt% PETN/20 wt% Sylgard 182 |
| XTX-8004 | 80 wt% RDX/20 wt% Sylgard 182, Formerly X-0208 |
| Black powder | Standard commercial and military grades only; 74 wt% Potassium nitrate/15.6 wt% Charcoal/10.4 wt% Sulfur |
| Benite | Black powder based mixture |
| Commercial sporting | Any commercially available smokeless gun propellant for sport use is approved. |
| HARP-1,-2 | HARP propellants are AI/AP/HMX composites. |
| HELP-1,-2 | HELP propellants are NC/NG/HMX composites. |
| Smokeless PowderSingle, Double, or Triple Base | Standard military grades.Military research explosives are specifically not included. |
| VTP 25540 | HMX based High Energy Propellant |
| Liquid Gun Propellant LGP 1846 | DX-11 SOP:15-11-4.20, "LGP 1846, TA-36-3" |
| 3E-1 Detonator | 3 E-1 SWP |
| AI-ANFO | Ammonium nitrate/Fuel oil/Aluminum powder |
| BDNPA | Bis(dinitropropyl) acetal |
| BDNPF | Bis(dinitropropyl) formal |

Waste Explosives Detonated at the TA-36 OD Unit (Continued)

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| Explosives | Other Names, Compositions, or Reference |
|----------------|---|
| BTX | 5,7-Dinitro-1-picrylbenzotriazole (transportation only) |
| DNPA | 2,2-Dinitropropyl acrylate polymer |
| DNT | Dinitrotoluene |
| HBX-1 | 40 wt% RDX/38 wt% TNT/17 wt% Al/5 wt% Wax/0.5 wt% CaCl ₂ |
| Methane/Oxygen | Explosive mixtures of methane and oxygen gases |
| NC | Nitrocellulose |
| PYX | 2,6-Bis(picrylamino)-3,5-dinitropyridine |
| STRATABLAST C | Storage and transportation only |
| TAGN | Triaminoguanadine nitrate |
| TAL-1005E | Storage and transportation only |
| TNS | Trinitrostilbene |
| TNT/NC | 80 wt% TNT/20 wt% NC |
| ТРМ | Tripicryl malamine |
| DAAF | Diaminoazoxyfurazan (residuals only) |
| BATTZ | Bisaminotetrazolyltetrazine (residuals only) |
| TNAZ | Trinitroazetidine (residuals only) |

Waste Explosives Detonated at the TA-36 OD Unit (Continued)

Sources: DX-4: SOP 3, "General Safety," Attachment 1, HE Routinely Used at DX Division Firing Areas; DX personnel.

Note: Additional types of explosives may be developed and used and the wastes subsequently detonated at the OD unit.

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SUPPLEMENT 2-2

Impulse Noise Measurements at Technical Area 36
Los Alamos

NATIONAL LABORATORY

ToMS: John McAfee, DX-4 (C925) From/MS: Ernesto A. Vigil, ESH-5 (K494) Lloyd Wheat, ESH-5 (K494) Phone/FAX: 5-9268/7-1945 Symbol: ESH-5:97-11653 Date: June 23, 1997

memorandum

Environment, Safety and Health Division Industrial Hygiene and Safety Group (ESH-5)

SUBJECT: IMPULSE NOISE MEASUREMENT AT MINIE SITE AND MOE HILL

Impulse noise measurements were made at Minie site bunker (inside Building 8) and at Moe Hill during a destruct shot on 6/5/97. The HE being disposed of was 800 lbs. of XO533 with 9404 booster. The reading in Building 8 was 132 dB and the reading at Moe Hill approximately 3/4 mile away was 139 dB. The measurements were made with a Gen Rad Type 1 meter, ESH-5 # 147 for the Moe Hill reading, and a Quest type 1 meter ESH-5 # 668 for the Building 8 measurement. Instrument settings were flat weighting; impulse; and peak hold. Instruments were calibrated pre and post use.

The occupational exposure limit(OEL) for impulse/impact noise at the Laboratory is based on the threshhold limit values set by the American Conference of Governmental Industrial Hygienists (ACGIH). The maximum worker exposure (without hearing protection) to impact noise is 140 dB. The number of impulses or impacts permitted daily at 140 dB is 100. No exposures above 140 dB are permitted.

Even though the measured levels do not exceed the OEL, it is recommended that hearing protection be used during shots of this size or sizes approaching this magnitude to preclude any affect on those individuals that may be unknowingly sensitive to impulse noise.

Please call me at 5-9268 if you have any questions or desire further discussion.

EAV:ns

Cy: G. D. Vasilik, DX-4 (C925) K. Firestone, DX-DO (P915) IHFS Files, ESH-5 (K494)

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Los Alamos

NATIONAL LABORATORY

memorandum

Environment, Safety and Health Division Industrial Hygiene and Safety Group (ESH-5)

SUBJECT: IMPULSE NOISE MEASUREMENT AT MOE HILL

An impulse noise measurement was made at Moe Hill during a destruct and demonstration shot at TA-36-8 (Minie) on April 24, 1997. The material destroyed was 250-300 lb of TNT and 9404 booster. The reading obtained was 114 dB with instrument settings on flat weighting and impulse. The measurement was made with a Gen Rad Type 1 meter, ESH-5 #170 with pre and post measurement calibration. A light cloud cover was present during this event.

The occupational exposure limit(OEL) for impulse noise at the Laboratory is based on the threshold limit values set by the American Conference of Governmental Industrial Hygienists (ACGIH). The maximum worker exposure allowed (without hearing protection) to impulse noise is 140 dB. Exposures above 140 dB are not permitted.

Please call Ernie at 5-9268 or Lloyd at 7-4251 if you have any questions or desire further discussion.

EAV:ns

Cy: Gary Laabs, DX-4 (C925) G. Vasilik, DX-4 (C925) K. Firestone, DX-DO (P915) V. Sandoval, DX-4 (P942) IHFS Files, ESH-5(K494)

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ToMS: John McAfee, DX-4 (C925) From/MS: E. A. Vigil, ESH-5 (K494) L. D. Wheat, ESH-5 (K494) Phona/FAX: 5-9268/7-1945 Symbol: ESH-5:97-11590 Date: June 2, 1997

Los Alamos

NATIONAL LABORATORY

memorandum

Environment, Safety and Health Division Industrial Hygiene and Safety Group (ESH-5)

SUBJECT: IMPULSE NOISE MEASURMENT AT MINIE SITE AND MOE HILL

Impulse noise measurements were made at Minie site bunker (inside Building 8) and at Moe Hill during a destruct shot on 3APR97. The HE being disposed of was 500 lbs. of a combination of 9501, 9502 and 9404. The reading in Bldg 8 was 126 dB and the reading at Moe Hill approximately $\frac{3}{4}$ mile away was 135 dB. The measurement at Minie site was made with the IVIE sound level meter, Type I, ESH-5 #677. The measurement at Moe Hill was made with a Gen Rad Type 1 meter, ESH-5 # 170. Instrument settings were flat weighting; impulse; and peak hold. Instruments were calibrated pre and post use. There was cloud cover during this event.

The occupational exposure limit(OEL) for impulse/impact noise at the Laboratory is based on the threshold limit values set by the American Conference of Governmental Industrial Hygienists (ACGIH). The maximum worker exposure (without hearing protection) to impact noise is 140 dB. The number of impulses or impacts permitted daily at 140 dB is 100. No exposures above 140 dB are permitted.

Even though the measured levels do not exceed the OEL, it is recommended that hearing protection be used during shots of this size or sizes approaching this magnitude to preclude any affect on those individuals that may be unknowingly sensitive to impulse noise.

Please call me at 5-9268 if you have any questions or desire further discussion.

EAV:ns

Cy: Gary Laabs, DX-45 (C925) G. D. Vasilik, DX-4 (C925) K. Firestone, DX-DO (P915) IHFS Files, ESH-5 (K494)

y:02v97003.doc

To/MS: John McAfee, DX-4 (C925) From/MS: Ernesto A. Vigil, ESH-5 (K494) ' Lloyd Wheat, ESH-5 (K494) ' Phone/FAX: 5-9268/7-1945 Symbol: ESH-5:97-10867 Date: April 23, 1997

| Document: | LANL TA-36 Part B |
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3.0 OTHER FEDERAL LAWS

A discussion of federal laws, as required by the New Mexico Administrative Code, Title 20, Chapter 4, Part 1, Subpart IX, 270.3 and 270.14(b)(20), revised January 1, 1997, is provided in Section 3.0 of the ALos Alamos National Laboratory General Part B Permit Application, \cong Revision 1.0 (LANL, 1998a).

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4.0 CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS

This section describes selected solid waste management units (SWMU) that have been identified in Technical Area (TA) 36 at Los Alamos National Laboratory (LANL). Because this TA encompasses a large area and contains a large number of or widely distributed SWMUs, this section addresses only those SWMUs that may reasonably be expected to potentially impact the unit included in this Part B permit application. Information on the remaining SWMUs in this TA is contained in Revision 1.0 of LANL's "Solid Waste Management Units Report" (LANL, 1990), hereinafter referred to as the 1990 SWMU Report, and in the ARFI Work Plan for Operable Unit 1130" (LANL, 1993). The information in this section is being submitted in response to regulatory requirements in the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 270.14(d), revised January 1, 1997 [1-1-97].

LANL uses the definition of a SWMU presented in "Module VIII: Special Conditions Pursuant to the 1984 Hazardous and Solid Waste Amendments to RCRA for Los Alamos National Laboratory, EPA I.D. NM0890010515" (U.S. Environmental Protection Agency [EPA], 1994), hereinafter referred to as Module VIII. This definition states that SWMUs are "any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at or around a facility at which solid wastes have been routinely and systematically released."

4.1 <u>SWMU DESCRIPTIONS</u>

Several types of SWMUs are present in TA-36. These SWMUs include those identified for corrective action in Module VIII, as modified following Class III permit modifications effective May 19, 1994 and December 23, 1998; and SWMUs that are active hazardous waste management units. Descriptions of the SWMUs identified for corrective action in Module VIII and those that are active units are presented below. These descriptions were compiled from the "RFI Work Plan for Operable Unit 1130" (LANL, 1993) and from the 1990 SWMU Report. Brief unit and waste descriptions are also provided in Table 4-1. Figure 4-1 shows the locations of the selected SWMUs at TA-36.

4.1.1 TA-36 SWMUs

SWMUs at TA-36 and in the vicinity of the TA-36 open detonation (OD) unit include active firing sites and a storage area.



| | LEGEND Contour, 100 ft | |
|---------|--|--|
| | Contour, 10 π Contour, 10 π Drainage Road, Dirt Road, Deved | |
| | Road, Paved Road/Trail Permanent Structure | |
| 4860 | SWMU (point location) | |
| | | |
| | | |
| | | |
| 6860 | | |
| | | |
| | | |
| | | |
| | 2351-B Figure 4-1: | |
| | Solid Waste Management Units (SWMU) in the Vicinity of the Open Detonation Unit near Technical Area (TA) 36, Building 8 | |
| | University of California Los Alamos National Laboratory Earth and Environmental Sciences Division FES-5 GIS TEAM | |
| | Produced by: Marcia Jones Date: September 01, 1999 GIS Plot ID: G108045 | |
| | North American Datum State Plane Coordinate System, New Mexico Central Zone. 1983 North American Datum Grid provides NM State Plane coordinates in feet. Grid interval, in feet: 500 Feet per inch on map = 100 SCALE 1:1200 | |
| 1633000 | METERS METERS 0 100 200 300 400 FEET Notice: The Information on this map is provisional and the accuracy has not been confirmed. Feature locations are dependent on scale and symbology and should not be relied upon to establish legal claims. Basemap Sources: Boundary, structure, and utility data are from Los Alamos National Laboratory Engineering Division and Los Alamos County Utility and Engineering Departments. Contour data is from Los Alamos National Laboratory Engineering Division and Los Alamos County Utility and Engineering Departments. Contour data is from Los Alamos National Laboratory Environmental Restoration Program aerial survey. September 1991. | |
| | | |

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4.1.1.1 Firing Sites

Constructed in 1950, the TA-36-6 firing site is located at the headwaters of Fence Canyon. This site is comprised of a magazine building, a control bunker, and an impact area and has been used for extensive gun testing (LANL, 1993). Potential constituents at this site may include depleted uranium, various heavy metals, plastics, explosives, and various other chemicals. This active firing site is identified in the 1990 SWMU Report as SWMU No. 36-004(b).

The TA-36-8 firing site [SWMU No. 36-004(c)] was constructed in 1950 and is located approximately 800 feet south of TA-36-6. The TA-36-8 active firing site has been used for armor-piercing experiments involving the use of various metal penetrators (LANL, 1993). The site may also operate under the requirements of 20 NMAC 4.1, Subpart VI [1-1-97], for treatment by OD of explosives-contaminated waste, and is the unit for which this Part B permit application is being submitted. Potential constituents at the TA-36-8 firing site are the same as those described above for TA-36-6.

4.1.1.2 Storage Area

A surface storage area, known as the Boneyard, is located near TA-36-7. The Boneyard is an undeveloped area measuring approximately 500- by 300-feet that was used from the late 1970s until the late 1980s for storage of large items that had been used in explosives testing. Items stored at the Boneyard included metal drums, cans, cylinders, and scrap metals such as lead sheets, copper, uranium-contaminated steel, and iron. The Boneyard was extensively cleaned up in response to a 1986 field survey and is now used to store nonwaste items (LANL, 1993). It is identified in the 1990 SWMU Report and in Module VIII as SWMU No. 36-005.

4.2 <u>RELEASES</u>

Some of the SWMUs listed in Table 4-1 are known or are suspected to have released hazardous waste or hazardous constituents. Samples collected from the Boneyard [SWMU No. 36-005] indicate the presence of various metals (e.g., chromium, lead, silver, and copper) and radioactive isotopes (e.g., thorium-232, uranium isotopes, potassium-40, and cesium-137). Explosives residue and shrapnel from nearby firing sites at TA-36 are also present at the Boneyard (LANL, 1993).

4.2.1 Characterization of Releases

Potential releases from SWMUs, if any, are described in the 1990 SWMU Report and in the ARFI Work Plan for Operable Unit 1130" (LANL, 1993). The descriptions include the material released and the nature of the release. However, because of the nature of the releases, the exact volume

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released is not known. The timing of the releases can only be estimated by the period of operation and sampling events.

4.2.2 <u>Corrective Action</u>

Pursuant to 20 NMAC 4.1, Subpart V, 264.101(a) [1-1-97], corrective action is required only for releases of hazardous waste or hazardous constituents. The SWMUs at TA-36 will be investigated and remediated, as necessary and with New Mexico Environment Department approval, during LANL Environmental Restoration Project corrective action activities. Corrective action will generally follow the Resource Conservation and Recovery Act Facility Investigation/Corrective Measures Study process.

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5.0 CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert H. Day

Division Director for Dynamic Experimentation Division Los Alamos National Laboratory Operator

fr DE

Чà.,

Dennis J. Erickson Division Director for Environment, Safety, and Health Division Los Alamos National Laboratory Operator

David A. Gurulé, P.E. Area Manager, Los Alamos Area Office U.S. Department of Energy Albuquerque Operations Owner/Operator

12 OCT 99

Date Signed

Date Signed

6.0 LIST OF REFERENCES

AEHA, see U.S. Army Environmental Hygiene Agency.

EPA, see U.S. Environmental Protection Agency.

LANL, see Los Alamos National Laboratory.

Larson, Beverly, and Don McClure, 1996 (draft), AFiring Site Impacts to Cultural Resources,≅ Cultural Resource Survey Report No. 131, Cultural Resource Team, Ecology Group, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1998a, ALos Alamos National Laboratory General Part B Permit Application,≅ Revision 1.0, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1998b, ALos Alamos National Laboratory General Part A Permit Application,≅ Revision 0.0, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1996, APart B Permit Application: Open Burning/Open Detonation Units at Technical Areas 14, 15, 36, and 39,≅ Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1993, ARFI Work Plan for Operable Unit 1130,≅ LA-UR-93-1152, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1990, "Solid Waste Management Units Report," Revision 1.0, LAUR 90-3400, Los Alamos National Laboratory, Los Alamos, New Mexico.

New Mexico Environmental Improvement Board (NMEIB), 1997, "New Mexico Administrative Code," Title 20, Chapter 4, Part 1, NMEIB, Santa Fe, New Mexico.

U.S. Army Environmental Hygiene Agency (AEHA), 1987, "RCRA Part B Permit Writers' Guidance Manual for Department of Defense Open Burning/Open Detonation Units," U.S. Army Environmental Hygiene Agency, Aberdeen Proving Ground, Maryland.

U.S. Environmental Protection Agency (EPA), 1998, 1994, "Module VIII: Special Conditions Pursuant to the 1984 Hazardous and Solid Waste Amendments to RCRA for Los Alamos National Laboratory, EPA I.D. NM0890010515," effective date May 19, 1994, and December 23, 1998, U.S. Environmental Protection Agency, Region 6, Hazardous Waste Management Division, Dallas, Texas.

ATTACHMENT A

FACILITY DESCRIPTION

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LIST OF ABBREVIATIONS/ACRONYMS

- LANL Los Alamos National Laboratory
- 20 NMAC 4.1 New Mexico Administrative Code, Title 20, Chapter 4, Part 1
- OD open detonation
- TA technical area

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ATTACHMENT A FACILITY DESCRIPTION

The information provided in this attachment is submitted in accordance with the applicable requirements of the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), revised January 1, 1997 [1-1-97]. The following subject areas are addressed in this attachment:

- A general description of Technical Area (TA) 36 at Los Alamos National Laboratory (LANL) [20 NMAC 4.1, Subpart IX, 270.14(b)(1)];
- ∃ Site-specific traffic patterns, volume, and control [20 NMAC 4.1, Subpart IX, 270.14(b)(10)];
- ∃ Site-specific location information for compliance with the seismic standard and floodplain requirements [20 NMAC 4.1, Subpart IX, 270.14(b)(11), and 20 NMAC 4.1, Subpart V, 264.18(a) and (b)];
- ∃ Site-specific topographic map requirements [20 NMAC 4.1, Subpart IX, 270.14(b)(19)];
- ∃ Site-specific groundwater monitoring and protection information [20 NMAC 4.1, Subpart IX, 270.14(c), and 20 NMAC 4.1, Subpart V, 264.90(a)].

A LANL-wide facility description addressing additional regulatory requirements is provided in Appendix A of the ALos Alamos National Laboratory General Part B Permit Application, ≅ Revision 1.0 (LANL, 1998a), hereinafter referred to as the LANL General Part B.

A.1 TA-36 GENERAL DESCRIPTION [20 NMAC 4.1, Subpart IX, 270.14(b)(1)]

TA-36 is located in the east-central portion of LANL (Figure A-1) and is spread over several mesa tops between a branch of Pajarito Canyon to the north and Water Canyon to the south. Mesa-top elevations at TA-36 range from approximately 6,380 to 7,120 feet above mean sea level. TA-36 contains an open detonation (OD) unit, several firing sites, and supporting offices where research is conducted with various types of explosives (LANL, 1993).

The OD unit near TA-36-8 is located in the southern portion of TA-36. The unit consists of an irregularly shaped area near TA-36-8, as shown on Figure A-2. Solid and liquid hazardous explosive waste may be treated (i.e., open detonated) at the unit. Nontreatment-related experimental test detonations (i.e., shots) are also currently performed at this location.

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A.2 TRAFFIC PATTERNS [20 NMAC 4.1, Subpart IX, 270.14(b)(10)]

General traffic pattern information, traffic volumes, and traffic control signals for the LANL-wide facility are provided in Appendix A of the LANL General Part B (LANL, 1998a).

A.2.1 Routes of Travel

The primary traffic routes used to transport hazardous waste to the OD unit at TA-36 include West Jemez Road (State Road 501), Anchor Ranch Road, R Site Road, and Potrillo Drive (Figures A-3 and A-4).

A.2.2 Traffic Volumes

Due to the nature of operations at TA-36 and because the TA is in a secured area, traffic volume in the area of the OD unit at TA-36 is kept to an absolute minimum to conduct safe treatment operations (typically between 2 and 5 vehicles per treatment). Vehicle types are generally cars, light- and medium-duty trucks and vans, and sometimes forklifts and cranes. During routine operations, vehicles are usually parked in the parking area east of TA-36-8 and/or adjacent to TA-36-7; occasionally, a truck or van may drive on the gravel road adjacent to the OD unit. During treatment operations, there are no vehicles at the site.

A.2.3 Traffic Control Signals

Traffic control signals within TA-36 include stop signs, posted speed limits, and other traffic and pedestrian control signs. The locations of existing signs near the OD unit at TA-36 are shown on Figure A-4.

A.2.4 Road Surfacing and Load-Bearing Capacity

Roads within TA-36 are generally two-lane roads with asphaltic concrete surfaces. Load-bearing capacity for these roads is 32,000 pounds per axle. These roads are typically constructed with a 6-inch-thick base overlain with a 3-inch-thick asphaltic concrete surface. These roads were designed and constructed to meet the American Association of State Highway and Transportation Officials specification HS-20.

A.3 LOCATION INFORMATION [20 NMAC 4.1, Subpart IX, 270.14(b)(11)]

A.3.1 <u>Seismic Standard</u> [20 NMAC 4.1, Subpart IX, 270.14(b)(11)(i and ii) and 20 NMAC 4.1, Subpart V, 264.18(a)]

The hazardous waste management unit at TA-36 is exempt from the seismic standards in 20 NMAC 4.1, Subpart IX, 270.14(b)(11), and 20 NMAC 4.1, Subpart V, 264.18(a) [1-1-97], because this unit

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existed prior to January 25, 1985, when the State of New Mexico received hazardous waste authorization. Consistent with the criteria provided in 20 NMAC 4.1, Subpart IX, 270.14(b)(11)(i), and 20 NMAC 4.1, Subpart V, 264.18(a) [1-1-97], the waste management unit at TA-36 existed prior to the effective date of regulations; thus, the seismic standards are not applicable.

A.3.2 <u>Floodplain Standard</u> [20 NMAC 4.1, Subpart IX, 270.14(b)(11)(iii through v) and 270.14(b)(19)(ii); 20 NMAC 4.1, Subpart V, 264.18(b)]

The unit at TA-36 is located on a mesa top. In accordance with 20 NMAC 4.1, Subpart IX, 270.14(b)(11)(iii through v) [1-1-97], the hazardous waste unit at TA-36 is not located within the 100-year floodplain boundary.

LANL has mapped all 100-year floodplain boundaries within the LANL complex, as required in "Module VIII: Special Conditions Pursuant to the 1984 Hazardous and Solid Waste Amendments to RCRA for Los Alamos National Laboratory, EPA I.D. NM0890010515" (EPA, 1994). A report was published documenting the floodplain mapping procedures (McLin, 1992). This report, which shows that the mesa top is not within the 100-year floodplain, is included as Supplement 5 of the LANL General Part B (LANL, 1998a).

A.4 <u>TOPOGRAPHIC MAPS</u> [20 NMAC 4.1, Subpart IX, 270.14(b)(19)]

Topographic maps and figures are provided herein or referenced to meet the requirements of 20 NMAC 4.1, Subpart IX, 270.14(b)(19) [1-1-97]. The maps clearly show the map scale, the date of preparation, and a north arrow. The maps and figures used to fulfill these regulatory requirements include the following:

- A LANL-wide 100-year floodplain map is provided on page 36 of the report included as Supplement 5 of the LANL General Part B (LANL, 1998a).
- ∃ A map showing surface waters, including intermittent streams, near TA-36 is included as Figure A-2.
- ∃ Surrounding land uses (e.g., residential, recreational) are depicted on Figure A-1.
- ∃ Wind roses for TA-49, the location of the closest wind observation tower to TA-36 at LANL, are shown on Figures A-5 and A-6.
- ∃ A map showing the legal boundaries of LANL (including TA-36) is provided as Map 1 in the "Los Alamos National Laboratory General Part A Permit Application" (LANL, 1998b), hereinafter referred to as the LANL General Part A.

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- ∃ The access control feature nearest the TA-36 OD unit (i.e., the entry gate) is shown on Figure A-7.
- ∃ A map showing supply wells, monitoring wells, test wells, springs, and surface-water sampling stations near TA-36 is included as Figure A-2.
- ∃ The locations of buildings and structures, the hazardous waste management unit, and the terrain for a distance of at least 1,000 feet beyond the OD unit at TA-36 are shown on Figure A-2.
- A map showing National Pollutant Discharge Elimination System discharge structure locations is included in the LANL General Part A (LANL, 1998b).
- ∃ Storm, sanitary, and process sewer systems at LANL are shown on Map A-1 of the LANL General Part B (LANL, 1998a).
- ∃ Drainage control features are shown on Figure A-8.
- ∃ Natural surface drainages are shown on the topographic map included herein as Figure A-2.
- ∃ Fire stations serving LANL and the County of Los Alamos are shown on Figure E-2 of Appendix E in the LANL General Part B (LANL, 1998a).
- ∃ The equipment cleanup area for LANL is located at TA-50-1. The location of TA-50-1 is shown on a map in the LANL General Part A (LANL, 1998b).
- X A map showing all existing and proposed wells and holes within an approximate three-mile radius of TA-36 is included as Figure A-9. To ensure greater legibility, a map showing the locations of pertinent wells (i.e., alluvial and regional wells proposed in LANL's "Hydrogeologic Workplan" [LANL, 1998c], environmental surveillance groundwater monitoring wells, and water supply wells) within an approximate three-mile radius of TA-36 is included as Figure A-10.

Contour lines on all topographic maps are in intervals sufficient to detail natural drainage at LANL and in the vicinity of the waste management unit. As provided in 20 NMAC 4.1, Subpart IX, 270.14(b)(19) [1-1-97], LANL has submitted the maps to the New Mexico Environment Department at these scales and contour intervals due to the size of the waste management unit, the extent of the LANL facility, and the topographic relief in the area.

A.5 <u>GROUNDWATER MONITORING</u> [20 NMAC 4.1, Subpart IX, 270.14(c) and 20 NMAC 4.1, Subpart V, 264.90(a)]

Groundwater monitoring information is provided in Appendix A of the LANL General Part B (LANL, 1998a).

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A.6 OTHER PERMIT ACTIVITIES

Other types of Resource Conservation and Recovery Act permits include, but are not limited to, the following:

- ∃ Permits by Rule
- ∃ Emergency Permits
- ∃ Hazardous Waste Incinerator Permits
- Bermits for Land Treatment Demonstrations Using Field Test or Laboratory Analyses
- ∃ Interim Permits for Underground Injection Control Program Wells
- B Research, Development, and Demonstration Permits
- Bermits for Boilers and Industrial Furnaces Burning Hazardous Waste.

Currently, none of these permit types are relevant for operations at TA-36.

A.7 <u>REFERENCES</u>

EPA, see U.S. Environmental Protection Agency.

LANL, see Los Alamos National Laboratory.

Los Alamos National Laboratory (LANL), 1998a, "Los Alamos National Laboratory General Part B Permit Application," Revision 1.0, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1998b, "Los Alamos National Laboratory General Part A Permit Application," Revision 0.0, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1998c, "Hydrogeologic Workplan," Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1993, ARFI Work Plan for Operable Unit 1130,≅ LA-UR-93-1152, Los Alamos National Laboratory, Los Alamos, New Mexico.

McLin, S. G., 1992, "Determination of 100-Year Floodplain Elevations at Los Alamos National Laboratory," LA-12195-MS, Los Alamos National Laboratory, Los Alamos, New Mexico.

U.S. Environmental Protection Agency (EPA), 1994, "Module VIII: Special Conditions Pursuant to the 1984 Hazardous and Solid Waste Amendments to RCRA for Los Alamos National Laboratory, EPA I.D. NM0890010515," effective date May 19, 1994, U.S. Environmental Protection Agency, Region 6, Hazardous Waste Management Division, Dallas, Texas.

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Figure A-1 Location Map of Technical Area (TA) 36 at Los Alamos National Laboratory (LANL)



| | LEGEND |
|---------|---|
| 6800 | Boundary, TA Contour, 10 foot |
| | Contour, 100 foot Fence, Industrial |
| | Fence, Security |
| | Road, Dirt |
| | Stream, Intermittent |
| | Stream, Perennial Structure |
| | |
| | (Old wells are pre-1990, new wells installed since 1990 according to EPA guidelines) |
| | ○ New Dry Well ○ Old Dry Well |
| | New Saturated Well Old Saturated Well |
| | MAIN AQUIFER WELLS |
| | ▲ Water Supply Well ↓ Test Well |
| | OTHER Abandoned/Plugged Well |
| 880 o | LAOR Well Other Monitoring Well |
| | Surface Water Sampling Station |
| | Spring |
| | |
| | energe en sondie in die eerste en een die eerste en die eerste en die eerste en die die bekerde van die steers Noorden eerste die steerste gebeure en die steerste en die steerste en die steerste die steerste die steerste e Noorden eerste gebeure die steerste gebeure die steerste die steerste die steerste die steerste die steerste st |
| | |
| | |
| | Figure A-2. Contour Map Showing the Location of the |
| | Hazardous waste Unit at Technical Area (TA) 50 |
| | 2351-A |
| | University of California Los Alamos National Laboratory Earth and Environmental Sciences Division |
| | EES-5 GIS TEAM |
| | Produced by: Marcia Jones Date: September 01, 1999 GIS Plot ID: G108046 |
| | N State Plane Coordinate System, New Mexico Central Zone. |
| | Grid provides NM State Plane coordinates in feet. Grid interval, in feet: 1000 Feet per inch on map = 200 |
| 0 | SCALE 1:2400 0 51 122 188 244 METERS 0 200 400 600 800 |
| 1634000 | FEET <u>Notice</u> : The Information on this map is provisional and the accuracy has not been confirmed. Feature locations are dependent on scale and symbology and should not be relied upon to establish legal claims. Basemap Sources: Boundary, structure, and utility data are from Los Alamos National Laboratory Engineering Dutsion and Los Alamos County Utility and Engineering Densiting Renational Laboratory |
| | Los Alamos National Laboratory Environmental Restoration Program aerial survey, September 1991. |





Figure A-4 Location Map of Access Roads and Traffic Control Signs in the Vicinity of the Open Detonation Unit near Technical Area (TA) 36, Building 8

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Modified from: "Environmental Surveillance and Compliance at Los Alamos During 1996," 1997, LA-13343-ENV, Los Alamos National Laboratory, Los Alamos, New Mexico.

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Modified from: "Environmental Surveillance and Compliance at Los Alamos During 1996," 1997, LA-13343-ENV, Los Alamos National Laboratory, Los Alamos, New Mexico.

Figure A-6 Annual Wind Roses for Technical Area (TA) 49 at Los Alamos National Laboratory (LANL)--Night



Figure A-7 Location Map Showing Entry Gate in the Vicinity of the Open Detonation Unit near Technical Area (TA) 36, Building 8



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LEGEND



Boundary, Los Alamos National Laboratory Boundary, Technical Area (TA) Contours, 100 foot Roads, Dirt Roads, Paved Road/Trail Stream, Intermittent Stream, Perennial Building **Open Detonation Unit Residential Areas**

+ Existing Wells and Holes Proposed Wells and Holes

2351-E

Figure A-10: Pertinent Existing and Proposed Wells and Holes Within an Approximate Three-Mile Radius of Technical Area (TA) 36



ATTACHMENT B

WASTE ANALYSIS PLAN

Document:LANL TA-36 Part BRevision No.:0.0Date:September 1999

ATTACHMENT B WASTE ANALYSIS PLAN

In accordance with the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 270.14(b)(2); 20 NMAC 4.1, Subpart V, 264.13, "General Waste Analysis; \cong and 20 NMAC 4.1, Subpart VIII, 268.7, "Waste Analysis and Record-Keeping," revised January 1, 1997, waste analysis requirements for hazardous wastes managed at Technical Area 36 are addressed in Appendix B of the ALos Alamos National Laboratory General Part B Permit Application, \cong Revision 1.0. A copy of Appendix B will be maintained at the Dynamic Experimentation Facility Management Office. Personnel from the Hazardous and Solid Waste Group will be primarily responsible for updating the plan.

ATTACHMENT C

INSPECTION PLAN

Document:LANL TA-36 Part BRevision No.:0.0Date:September 1999

ATTACHMENT C INSPECTION PLAN

In accordance with the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 270.14(b)(5), and 20 NMAC 4.1, Subpart V, 264.15, "General Inspection Requirements," revised January 1, 1997, inspection requirements for the hazardous waste management unit at Technical Area 36 are addressed in Appendix C of the ALos Alamos National Laboratory General Part B Permit Application, \cong Revision 1.0.

ATTACHMENT D

PERSONNEL TRAINING PLAN

ATTACHMENT D PERSONNEL TRAINING PLAN

In accordance with the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 270.14(b)(12), and 20 NMAC 4.1, Subpart V, 264.16, "Personnel Training," revised January 1, 1997, training requirements for treatment, storage, and disposal facility workers who work at the Technical Area 36 open detonation unit are addressed in Appendix D of the ALos Alamos National Laboratory General Part B Permit Application," Revision 1.0.

ATTACHMENT E

CONTINGENCY PLAN
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E-1 Emergency Equipment near the Technical Area (TA) 36 Open Detonation (OD) Unit

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E-1 Evacuation Route and Muster Area for the Open Detonation Unit near Technical (TA) 36, Building 8

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LIST OF ABBREVIATIONS/ACRONYMS

DXDynamic Experimentation20 NMAC 4.1New Mexico Administrative Code, Title 20, Chapter 4, Part 1ODopen detonationTAtechnical area

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ATTACHMENT E

CONTINGENCY PLAN

In accordance with the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart V, Part 264, Subpart D, AContingency Plan and Emergency Procedures, and 20 NMAC 4.1, Subpart IX, 270.14(b)(7), revised January 1, 1997, contingency measures applicable to the hazardous waste management unit at Technical Area (TA) 36 are provided in Appendix E of the ALos Alamos National Laboratory General Part B Permit Application, Revision 1.0 (LANL, 1998), hereinafter referred to as the LANL General Part B. Specific information on emergency response resources and release prevention/mitigation at TA-36 is provided below. A copy of this Contingency Plan and the Contingency Plan from Appendix B in the LANL General Part B will be maintained at the Dynamic Experimentation (DX) Facility Management Office. Personnel from the Hazardous and Solid Waste Group will be primarily responsible for updating the plan.

Figure E-1 shows the evacuation route and muster area that may be used at the TA-36 open detonation (OD) unit in the event of an emergency. In addition, a listing of emergency equipment currently available for use at the TA-36 OD unit is included as Table E-1. The evacuation route, muster area location, and emergency equipment are subject to change.

E.1 EMERGENCY RESPONSE RESOURCES

The DX Division is responsible for the hazardous waste OD unit at TA-36. DX personnel have been trained in emergency procedures.

E.2 <u>RESPONSIBILITY</u>

At TA-36, DX Division is responsible for correction of a nonsudden release from the hazardous waste management unit if the correction can be performed safely with normal maintenance and management procedures. Personnel from the Emergency Management and Response Office may provide assistance in mitigating releases. Any correction methods for nonsudden releases that have resulted in an impact to the environment will be coordinated with the New Mexico Environment Department.

E.3 <u>REMEDIAL ACTION</u>

Contingency or emergency measures are unanticipated "fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste ..." for which a schedule of remedial actions cannot be reasonably ascertained. Any remedial actions carried out under the provisions of the contingency

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plan will be performed as soon as possible to ensure protection of human health and the environment, as described in Appendix E of the LANL General Part B. As stated in the LANL General Part B, these remedial actions include site cleanup; proper handling of recovered waste, contaminated soil, or contaminated surface water; decontaminating equipment, as needed; replacing or repairing equipment, as needed; and testing to verify successful cleanup.

DX Division personnel conduct regularly scheduled inspections at TA-36 to detect deterioration and/or failure of containment at the TA-36 OD unit. If an inspection reveals deterioration or failure, DX Division personnel ensure that maintenance or replacement is performed, as appropriate.

E.4 <u>REFERENCES</u>

Los Alamos National Laboratory (LANL), 1998, ALos Alamos National Laboratory General Part B Permit Application,≅ Revision 1.0, Los Alamos National Laboratory, Los Alamos, New Mexico.

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Table E-1

Emergency Equipment near the Technical Area (TA) 36 Open Detonation (OD) Unit^a

Emergency equipment at TA-36-8 available for personnel conducting activities at the TA-36 OD unit:

FIRE CONTROL EQUIPMENT:

Fire extinguishers

Locations:

A carbon dioxide (CO_2) fire extinguisher is located in the control building (TA-36-8).

A water (A) fire extinguisher is located in TA-36-8.

An ABC fire extinguisher is located in each vehicle used to transport explosive material.

Description of General Capabilities:

The fire extinguishers may be used by any employee in case of a fire. The water fire extinguisher is for use on wood or brush fires. The CO_2 fire extinguisher is for use on electrical fires. Fire extinguishers may be used in the event of an uncontrolled fire at the firing site.

A fire alarm pull station is located in the main chamber of TA-36-8.

Description of General Capabilities:

Manually-operated fire alarms may be activated by any employee in the event of a fire to notify the Central Alarm Station (CAS).

An automatic thermal alarm system is located in TA-36-8.

Description of General Capabilities:

Two alarms are connected to this system. One is located on the ceiling of the main chamber and one is located on the ceiling of the camera room.

In the event that treatment by OD should result in a potential fire hazard, local fire department personnel may be asked to stand by during treatment to control any fires that may be started.

COMMUNICATION EQUIPMENT:

Telephones and two-way radios

Locations:

Telephones are located inside TA-36-8.

A portable telephone is available at the firing site.

A two-way radio is located in the make-up building (TA-36-7).

A two-way radio is located inside TA-36-8.

A two-way radio is issued to each firing site vehicle.

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Table E-1

Emergency Equipment near the Technical Area (TA) 36 Open Detonation (OD) Unit^a (Continued)

Emergency equipment at TA-36-8 available for personnel conducting activities at the TA-36 OD unit (continued):

Description of General Capabilities:

Telephones for internal and external communication are available for use by any employee.

Fire and evacuation alarms

Description of General Capabilities:

The fire alarm is activated in the event of a fire to notify the CAS. The evacuation alarm, which consists of horns and sirens, is used at the OD unit to alert personnel to clear the area and/or to warn of test operations.

DECONTAMINATION EQUIPMENT:

An eyewash station and Material Safety Data Sheets (MSDS) are available in the main chamber of TA-36-8.

A portable eyewash station is available in the immediate area, when required.

Description of General Capabilities:

Eyewashes may be used by personnel who receive a chemical splash to the eyes. Specific MSDSs should be obtained prior to working with hazardous waste to determine if the application of water is indicated for decontamination.

PERSONAL PROTECTIVE EQUIPMENT:

Two self-contained breathing apparatus are located in TA-36-8. First aid kits and hearing protection are also located in TA-36-8.

OTHER:

See Table E-2 in Appendix E of the ALos Alamos National Laboratory General Part B Permit Application, \cong Revision 1.0, for equipment available in Hazardous Material vehicles and trailers.



Figure E-1 Evacuation Route and Muster Area for the Open Detonation Unit near Technical Area (TA) 36, Building 8

ATTACHMENT F

CLOSURE PLAN FOR TECHNICAL AREA 36 OPEN DETONATION UNIT

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| F.1.2 | Removal of Waste | F-2 |
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| F.1.4 | Decontamination Equipment | F-4 |
| F.1.5 | Decontamination Verification | F-4 |
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F-1 Schedule for Closure Activities at the Technical Area 36 Open Detonation Unit

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- F-1 Location Map of Technical Area (TA) 36 at Los Alamos National Laboratory (LANL)
- F-2 Location Map Showing the Open Detonation Unit near Technical Area (TA) 36, Building 8

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LIST OF ABBREVIATIONS/ACRONYMS

| DX | LANL=s Dynamic Experimentation Division |
|-------------|--|
| EPA | U.S. Environmental Protection Agency |
| ESH-5 | LANL's Industrial Hygiene and Safety Group |
| ESH-19 | LANL=s Hazardous and Solid Waste Group |
| LANL | Los Alamos National Laboratory |
| 20 NMAC 4.1 | New Mexico Administrative Code, Title 20, Chapter 4, Part 1 |
| NMED | New Mexico Environment Department |
| OD | open detonation |
| PPE | personal protective equipment |
| QA | quality assurance |
| QC | quality control |
| RCRA | Resource Conservation and Recovery Act |
| SW-846 | EPA=s "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" |
| ТА | technical area |

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ATTACHMENT F

CLOSURE PLAN FOR TECHNICAL AREA 36 OPEN DETONATION UNIT

The information provided in this closure plan is submitted to address the applicable closure requirements specified in the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart IX, 270.14(b)(13), and 20 NMAC 4.1, Subpart V, Part 264, Subparts G and X, revised January 1, 1997 [1-1-97]. This closure plan describes the activities necessary to close the hazardous waste open detonation (OD) unit at Los Alamos National Laboratory (LANL) Technical Area (TA) 36. General closure information applicable to all hazardous and mixed waste management units at LANL and specific sampling and analytical procedures to be used during closure activities are presented in Appendix F of the ALos Alamos National Laboratory General Part B Permit Application,≅ Revision 1.0 (LANL, 1998), hereinafter referred to as the LANL General Part B. The general closure information referenced addresses closure performance standards; amendment of the closure plan; closure cost estimate, financial assurance, and liability requirements; closure certification and report; and survey plat and post-closure requirements. A copy of this closure plan and the LANL General Part B closure plan will be maintained at the Dynamic Experimentation (DX) Facility Management Office. Personnel from the Hazardous and Solid Waste Group (ESH-19) will be primarily responsible for updating the plan.

F.1 <u>CLOSURE PROCEDURES FOR THE TA-36 OD UNIT</u> [20 NMAC 4.1, Subpart V, 264.112; 20 NMAC 4.1, Subpart VI, 265.381]

The hazardous waste OD unit addressed in this Part B permit application is located at TA-36 at LANL. Figure F-1 shows the location of TA-36 at LANL. Figure F-2 shows the specific location of the OD unit at TA-36. A detailed unit description is provided in Section 2.0 of this Part B permit application. The closure schedule for the OD unit is outlined in Table F-1. LANL typically revises closure plans to address conditions at the time of actual closure. The revised closure plan will be submitted to the New Mexico Environment Department (NMED) for review and approval. The location and disposition of all wastes generated during closure will be documented in the final closure report. The estimated year of closure of the OD unit is 2100.

LANL fully intends to achieve clean closure of the OD unit by decontamination or removal of contaminated structures or media. However, should clean closure not be achieved, a post-closure plan meeting the requirements of 20 NMAC 4.1, Subpart V, 264.603 [1-1-97], will be developed for the OD unit and submitted to the NMED for approval.

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F.1.1 Description of Waste/Estimate of Maximum Waste Capacity

The TA-36 OD unit located adjacent to TA-36-8 is used to treat solid and liquid hazardous explosive waste by OD. The OD unit has a maximum treatment capacity of 2,000 pounds of waste per detonation. LANL does not intend to reduce the areal extent of the TA-36 OD unit during the active life of the unit. The unit will eventually undergo closure; LANL does not anticipate leaving unclosed portions of this unit. Both the design capacity and the areal extent are addressed in this section, as provided in the ARCRA Guidance Manual for Subpart G Closure and Post-Closure Care Standards and Subpart H Cost Estimating Requirements≅ (U.S. Environmental Protection Agency [EPA], 1987). Waste that may be treated at the TA-36 OD unit includes waste generated during research and development activities and processing and recovery operations at various TAs throughout LANL. Information on the hazardous component of these wastes is provided in Appendix B of the LANL General Part B (LANL, 1998).

F.1.2 Removal of Waste

Prior to the initiation of closure activities, wastes will be treated at or removed from the OD unit. If removal is required, the wastes will be transported to an active, permitted treatment unit in accordance with the most current and approved applicable standard operating procedures. See Section 2.2 of this document for procedures regarding removal of residues. Containers and packaged waste may be removed from the unit manually or with container-handling equipment, depending on the size, shape, and weight of the container. Flatbed trucks or trailers may be used for transport of the wastes. Appropriate shipping papers will accompany the wastes during transport. Remaining hazardous wastes will be moved to an approved on-site storage unit or to an off-site permitted treatment, storage, and disposal facility.

F.1.3 Closure Procedure and Decontamination

To the extent possible, contaminated structures associated with the TA-36 OD unit will be decontaminated (if necessary) and removed. Structures and media that cannot be decontaminated will be containerized and managed in compliance with appropriate regulations. Sampling conducted during closure and decontamination will be done in accordance with quality assurance (QA)/quality control (QC) procedures.

Before proceeding with closure activities, the OD unit and associated structures will receive a thorough visual inspection for unexploded explosive scrap. Personal protective equipment (PPE)

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and monitoring requirements will be determined by LANL's Industrial Hygiene and Safety (ESH-5) Group and groups within DX Division (for explosive handling) following the initial field inspection. Chemical monitoring will occur throughout closure activities, as appropriate. If contamination is found, the contaminated material will be decontaminated (if possible) or containerized and taken to an approved storage location at LANL appropriate for the waste type.

Personnel involved in closure activities will wear appropriate PPE, specified by ESH-5 and DX, and will follow good hygiene practices to protect themselves from exposure to hazardous waste. The level of PPE that will be required will depend upon the levels of chemical contamination that are detected, if any. If ESH-5 and DX surveys do not indicate detectable contamination levels, minimum PPE requirements will consist of coveralls, steel-toed footwear, and safety glasses or face shields. If an overhead danger is present, a hard hat will be worn. Workers involved in closure activities will be required to have appropriate training and medical monitoring. Contaminated PPE will either be decontaminated or managed in compliance with appropriate regulations.

Before decontamination activities begin, two samples of clean water and detergent (washwater) solution squeezed from mops and/or sponges prior to use will be collected for analysis of the appropriate parameters listed in Table E-3 of Appendix E (the Contingency Plan) in the LANL General Part B to provide a baseline for decontamination verification. Structures at the OD unit that require decontamination will be wiped down with washwater solution. Mops and/or sponges will be used to minimize the amount of liquid waste generated as a result of decontamination activities. The used washwater solution will be contained using portable berms and/or other containment structures and equipment, as appropriate.

Used washwater will be collected and transferred to containers and sampled for the appropriate parameters listed in Table E-3 of Appendix E of the LANL General Part B (LANL, 1998). The wash cycles will continue until the structures at the OD unit have been cleaned to established levels (see Section F.1.5). The used washwater will be managed appropriately in accordance with LANL policy.

Prior to the initiation of closure activities, background soil samples will be collected in the vicinity of the OD unit and analyzed for the appropriate parameters listed in Table E-3 of Appendix E of the LANL General Part B (LANL, 1998). After the structures have been decontaminated (if possible), removed, and managed, as appropriate, a statistically representative number of soil samples will be collected at the OD unit and analyzed for the appropriate parameters listed in Table E-3 of Appendix

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E of the LANL General Part B. Samples will be collected at a frequency and depth to ensure that samples are representative of the entire area covered by the OD unit. Soil sampling will be conducted by the methods described in Section F.2 of the LANL General Part B. If contamination is found in any of the soil samples as a result of treatment activities, the appropriate criteria in Section F.1.5 will be applied.

F.1.4 Decontamination Equipment

Prior to use, reusable decontamination equipment will be rinsed with distilled water. Decontamination equipment rinsate blanks will be collected and analyzed in accordance with QA/QC procedures. Reusable protective clothing, tools, and equipment used during closure activities will be scraped as necessary to remove any residue and cleaned with a washwater solution. Residue, disposable equipment, and reusable equipment that cannot be decontaminated will be containerized and managed appropriately at an approved on-site facility, depending on the regulated constituents present.

F.1.5 Decontamination Verification

Sufficient sampling and analysis will be required to demonstrate that hazardous waste or hazardous waste residue is not present at the site after closure. Two samples of clean washwater solution squeezed from mops and/or sponges prior to use will be collected before initial washdown of any structures associated with the OD unit. The samples will be analyzed for the appropriate parameters, as discussed in Section F.1.3. Analytical procedures will conform to methods found in the most current version of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (*SW-846*) (EPA, 1986). Used washwater will be analyzed for the same parameters. Used washwater will be considered contaminated if it shows a significant increase (i.e., determined using statistical methods defined in *SW-846*) in the analytical parameters over the clean washwater solution. If subsequent washdowns are deemed necessary, an additional sample of clean washwater solution squeezed from mops and/or sponges prior to use will be taken for each additional washdown event.

Successful decontamination meets one of the following criteria:

∃ No detectable Resource Conservation and Recovery Act (RCRA)-regulated constituent residues from treatment of authorized RCRA-regulated wastes are identified in samples collected during closure activities.

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- Examples 2 Detectable concentrations of RCRA-regulated constituents in samples collected during closure activities are at or below existing regulatory action levels, as agreed upon with the NMED.
- ∃ Detectable concentrations of RCRA-regulated constituents in samples collected during closure activities identify no statistically significant concentrations of RCRA-regulated constituents above baseline data.
- Detectable concentrations of RCRA-regulated constituents in samples collected during closure activities are at or below levels agreed upon with the NMED to be protective of human health and the environment based on the results of a risk assessment.
- Detectable concentrations of RCRA-regulated constituents that cannot be removed or decontaminated to acceptable levels as described above will be allowed to remain, provided that these RCRA-regulated constituents do not pose an unacceptable risk when combined with technical or administrative control measures agreed upon with the NMED.

An alternative demonstration of decontamination may be proposed and justified at the time of unit closure, as circumstances indicate. NMED will evaluate the proposed alternative in accordance with the standards and guidance then in effect and, if approved, incorporate the alternative into this closure plan.

F.1.6 <u>References</u>

EPA, see U.S. Environmental Protection Agency.

LANL, see Los Alamos National Laboratory.

Los Alamos National Laboratory (LANL), 1998, "Los Alamos National Laboratory General Part B Permit Application," Revision 1.0, Los Alamos National Laboratory, Los Alamos, New Mexico.

U.S. Environmental Protection Agency (EPA), 1987, ARCRA Guidance Manual for Subpart G Closure and Post-Closure Care Standards and Subpart H Cost Estimating Requirements, *EPA/530-SW-87-010*, Office of Solid Waste, Washington, D.C.

U.S. Environmental Protection Agency (EPA), 1986 and all approved updates, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," *EPA-SW-846*, Office of Solid Waste and Emergency Response, U.S. Government Printing Office, Washington, D.C.

| Document: | LANL TA-36 Part B |
|---------------|-------------------|
| Revision No.: | 0.0 |
| Date: | September 1999 |

Table F-1

Schedule for Closure Activities at the Technical Area 36 Open Detonation Unit

| Activity | Maximum Time Required ^a |
|---|---------------------------------------|
| Let contract request for proposals | -90 Days |
| Notify the New Mexico Environment Department (NMED) | -45 Days |
| Receive proposals | -30 Days |
| Select contractor and award contract | -10 Days |
| Collect background samples (if appropriate) | -5 Days |
| Final treatment of waste | Day 0 |
| Begin closure activities (perform washdown of structures) | Day 10 |
| Perform initial sampling of the waste management unit | Day 15 |
| Analyze samples | Day 45 |
| Perform additional washdown (if necessary) | Day 50 |
| Perform additional sampling (if necessary) | Day 60 |
| Analyze samples (if necessary) | Day 90 |
| Perform final cleanup (e.g., removal of decontamination wastes) | Day 120 |
| Verify decontamination | Day 150 |
| Submit final report to NMED | Day 180 |

^a The schedule above indicates calendar days from the beginning by which activities will be completed. Some activities may be conducted simultaneously and/or may not require the maximum time listed. Extensions to this schedule may be requested, as necessary.

 Document:
 LANL TA-36 Part B

 Revision No.:
 0.0

 Date:
 September 1999

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Figure F-1 Location Map of Technical Area (TA) 36 at Los Alamos National Laboratory (LANL)



Figure F-2 Location Map Showing the Open Detonation Unit near Technical Area (TA) 36, Building 8

ATTACHMENT G

STANDARD OPERATING PROCEDURES APPLICABLE TO OPEN DETONATION UNITS

| Document: | LANL TA-36 Part B |
|---------------|-------------------|
| Revision No.: | 0.0 |
| Date: | September 1999 |

Disclaimer

The standard operating procedures (SOP) in this document are for informational purposes only. These SOPs are the most current available and are amended periodically.

STANDARD OPERATING PROCEDURE

FOR

WASTE MANAGEMENT AND

GENERATOR WASTE CERTIFICATION PROGRAM

IN DX-DIVISION

DX-DO: SOP 01

| Prepared by: | M. M. Cash, DX-DO/ESH-19 | Date: |
|--------------|---|------------|
| Prepared by: | J. B. Richardson, DX-2 | Date: |
| Prepared by: | G. Jio, DX-2 | Date: |
| Approved by: | G. D. Vasilik, DX-DO ES&H Coordinator | Date: |
| Approved by: | C. A. Nelson, Deputy Facility Manager for ES& | Date: H |
| Approved by: | C. M. Montoya, DX-DO Operations Coordinato | Date: r |
| | Controlled Document Number: | |

Waste Management and Generator Waste Certification Program in DX-Division

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1.0 INTRODUCTION

The Dynamic Experimentation (DX) Division encompasses a 22 square mile area and is involved in a wide variety of disciplines involving explosives research, development, testing, production and applications. DX Division operates a number of research facilities including firing sites, some of which are Resource Conservation and Recovery Act (RCRA) Open Burn (OB) or Open Detonation (OD) treatment units. The research facilities involve the research, development, production and application of existing explosives, new explosives, and detonators. The firing sites involve the testing and application of explosives and detonators. The RCRA OB/OD units treat explosive wastes that are generated within DX and ESA Divisions as well as any other explosives found at the Laboratory. The Federal Government and the State of New Mexico regulate storage, treatment and disposal of hazardous waste. This Standard Operating Procedure (SOP) describes methods to assure waste generators are in compliance with the regulations.

2.0 PURPOSE

The purpose of this SOP is to describe the procedures for handling, packaging, marking, labeling, segregating, minimizing, and storing regulated wastes. For the purposes of this document, regulated wastes include hazardous, radioactive, mixed, PCB, asbestos, NM Special, and administratively controlled wastes.

This SOP implements LIR 404-00-03 "Hazardous and Mixed Waste Requirements for Generators" and LIR 404-00-01 "Waste Acceptance, Characterization and Certification Program".

3.0 SCOPE

This SOP is applicable to all waste generators associated with DX-Division operations.

4.0 **DEFINITIONS**

4.1 **Definitions**

| Acceptable Knowledge | Includes process knowledge, supplemental waste analysis data, and facility records or analysis as applied to waste characterization. |
|--|--|
| Acutely Hazardous (P-listed) Waste: | Commercial chemical products, manufacturing chemical intermediates, off-specification commercial chemical products or technical grades of the chemicals that are identified in 40 CFR 261.33(e) as acute hazardous waste. (See Attachment No. 1) |

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| Administratively Controlled Waste: | Waste that is both non-hazardous and non-radioactive but cannot be disposed of at the county landfill due to special considerations. This includes, but is not limited to, classified waste, sensitive waste, New Mexico special waste, and empty containers 30 gallons and larger. | |
| Container: | Any portable device in which material is stored, transported, treated, or otherwise handled. | |
| Explosives Waste: | Any explosive in powder, consolidated, or liquid form; or any item or material visibly contaminated with it; that is a waste from an operation or has no further use. | |
| Hazardous Waste: | Any solid waste is generally hazardous if 1) not excluded from regulation as a hazardous waste; 2) is listed in regulations as a hazardous waste (See Attachment No. 1); 3) exhibits any of the defined characteristics of hazardous waste (ignitability, corrosivity, reactivity, or toxicity; or 4) is a mixture of solid waste and hazardous waste. Hazardous wastes generated in DX-Division include explosives, research chemicals, solvents, acids, bases, carcinogens, compressed gases, and heavy metals. This may also include equipment, containers and other items intended for disposal that are contaminated with hazardous waste. (LIR404-00-03.0). | |
| Low Level Radioactive Waste (LLW): | Radioactive or radioactively contaminated waste that is not classified as high level waste, transuranic waste, spent nuclear fuel or by-product material as defined in section 11e(2) of the Atomic Energy Act (AEA) of 1954, as amended. Test specimens of fissionable material irradiated for research and development only and not for the production of power or plutonium may be classified as LLW, provided that the level of transuranics is less than 100nCi/g. | |
| Mixed Waste: | Waste containing both radioactive and hazardous components as defined and regulated by the AEA and RCRA (LIR404-00-03.0). | |
| New Mexico Special Waste | The following types of solid waste, which have unique handling, transportation, or disposal requirements to assure protection of the environment, public health, | |

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| DX-DO: SOP 01 Revision B | Waste Management and Generator Waste Certification Program in DX-Division | Page 6 of 19 | |
|---|--|---|--|
| | welfare, and safety: treated formerly characteristic hazardous waste; asbestos waste; ash; infectious waste; sludge; industrial solid waste; spill of a chemical substance or commercial product; dry chemicals which, when wetted, become characteristically hazardous; and petroleum-contaminated soil (20 NMAC 9.1.105BZ). | | |
| Orphaned Waste: | Any material or waste with an unknown origin, history, or generator. Also, any material or waste that was abandoned at the Laboratory or does not have a defined owner. | | |
| Radioactive Waste: | Solid, liquid, or gaseous waste regulated under the AEA | that contain radionuclides | |
| Radiological Controlled Area (RCA): | An area to which access is con individuals from exposure to ra materials. (For a complete defi SOP 06). | trolled to protect adiation and/or radioactive nition of RCA see DX-DO | |
| Satellite Accumulation Area (SAA): | An area registered with the Ha Group (ESH-19) where a gene 55-gal. of hazardous waste or waste in closed containers at or generation. | zardous and Solid Waste rator may accumulate up to 1-qt of acutely hazardous r near the point of | |
| Solid Waste: | Any discarded material, either inherently waste-like, includin semisolids, and contained gase | abandoned, recycled, or g liquids, solids, es. | |
| Storage Area Contact | The person responsible for ens areas is properly managed and contact for the area. | uring waste at a storage acts as the single point of | |
| Transuranic (TRU) Waste: | Waste that is contaminated wit radionuclides with 1) half-lives concentrations greater than 100 assay, and 3) atomic numbers radioactive sources in DX may disposal purposes. Contact a V | th alpha emitting s greater than 20 years, 2) O nCi/g at the time of greater than 92. (Some fit this definition for WMC for guidance). | |
| Universal Waste Area | An area registered with ESH-19 where a generator may accumulate certain hazardous waste (batteries, pesticides, | | |

| DX-DO: SOP 01 Revision B | Waste Management and Generator Waste Certification Program in DX-Division | Page 7 of 19 |
|----------------------------------|--|---|
| | and thermostats – mercury con | taining). |
| Waste Acceptance Crite (WAC): | eria Restrictions placed on waste for packaging, labeling, etc. that m accepted for treatment, storage | orm, content, radioactivity, nust be met before waste is or disposal. |
| Waste Generator: | Any person whose act or proce otherwise regulated waste, or v waste to be subject to regulation | ess produces hazardous or vhose act first causes a n. |
| Waste Minimization: | Any effort that reduces or elim volume of the waste. Minimiz substitution, process modificat housekeeping, reuse, and recyc | inates the toxicity, mass or ation methods include ion, segregation, ling. (AR 10-8). |
| < 90-Day Storage Area: | An area registered with ESH-1 allowed to store RCRA hazard days provided certain operating | 9 where a generator is ous waste for up to 90 g requirements are met. |
| 4.2 Acronyms | | |
| AK CWDR: | Acceptable Knowledge Chemical Waste Disposal Requ Attachment No. 2). | uest (Form 1541), (See |
| ESA | Engineering, Science and Appl | ication Division |
| EM/SWO | Environmental Management/So | olid Waste Operations |
| GWCP | Generator Waste Certification | Program |
| OB/ODs: | Open burn/Open detonation un to treat explosives waste. Thes Cage, TA-14 Firing Mound 3, 7 6&57 firing points, TA-15-184 16 Burn Ground. | its, permitted by the State e include the TA-14 Burn ΓA-36 Kappa 8, TA-39- firing point, and the TA- |
| RCRA | Resource Conservation and Rec | covery Act |
| KCT TSDF | Radiological Control Technicia | |
| WMC: | Waste Management Coordinate who is trained in the regulations requirements for characterizing for treatment and/or disposal of | al Facility or: A person s and administrative , storing, and arranging |
| WPF: | Waste Profile Form (Form 1340 3), and LIR 404-00-03.0. | 6). (See Attachment No. |

Walays .

5.0 **RESPONSIBILITIES**

5.1 DX Division Director

The DX Division Director is responsible for:

- ensuring waste is properly characterized,
- DX Division personnel are appropriately trained and qualified.
- implementing and ensuring conformance with the SOP/GWCP, and
- ensuring that waste acceptance criteria are met for facilities accepting DX Division waste.
- provide waste volume projections per LIR404-00-01.2.

5.2 DX-Division Line Management

Ensures that the necessary policies, procedures, equipment, expertise (training and qualified), and manpower are available for safe handling, storage, and treatment of hazardous wastes.

5.3 Waste Management Coordinator (WMC)

- Communicates waste acceptance criteria to the waste generators.
- Acts as liaison between generators and Laboratory waste management organization, as described in LS105-01.0, Waste Management Coordinator Program.
- Ensures that generators complete waste characterization documentation accurately and correctly. Sampling will be performed in accordance with methods described in LIR404-00-01.2.
- Notifies generators of any new policies or regulations concerning waste management.
- Completes the CWDR, schedules waste disposal and/or transportation in compliance with applicable regulations, and signs the waste manifest.
- Provides the most current waste related forms to the generator.
- Attends required training related to the management, packaging, and transportation of waste.
- Assists generators in proper management of regulated waste at generator's site according to State and federal laws and Laboratory policies.
- Conducts inspections of RCRA storage and treatment areas.
- Keeps line management and division management informed of non-compliance issues.
- WMCs are assigned by geographical areas (See Attachment No. 4).

5.4 Waste Generators

• Comply with all federal, State, DOE, LANL and DX-Division regulations/policies concerning waste generation, handling, and storage.

- Properly characterize, certify, and document their regulated waste streams using a Waste Profile Form.
- Notify a WMC of waste management problems or questions involving waste characterization (See Attachment No. 5).
- Segregate their TRU, low-level, mixed, hazardous, and non- hazardous waste streams.
- Ensure that waste is packaged, marked, labeled, and stored properly according to applicable laws and policies.
- Comply with applicable WAC.
- Complete waste generator training courses provided by ES&H Training Group before generating any waste.
- Minimize waste generation as much as technically and economically feasible. (AR 10-8).
- Log any waste added to an SAA or UWA. (See Attachment No. 6). Include the name of the person placing the waste in the area, the waste constituents, the amount of waste, and date placed in the container.
- Act as storage area contact (responsible person) as appropriate.
- Label the main container with the waste constituents as well as the words "Hazardous Waste."
- Maintain required records as required.

5.5 Training

Workers are required to be assigned to and meet the requirements of the Laboratory training plan(s) associated with their work responsibilities as defined in the following table. They shall also complete the required reading of DX Division SOPs as identified by their supervisor and be trained in accordance with the DX Division Training and Qualification Manual.

Waste Management and Generator Waste Certification Program in DX-Division

| Responsibility | Training Plan # | Additional Information |
|---|--------------------|---|
| Hazardous Waste Generator (Generates hazardous or other regulated waste, or causes a waste to be subject to regulation). | 2810 | |
| Satellite Accumulation Area Worker (Has responsibility for one or more SAAs). | 295 | |
| <90 Day Storage Area Worker (Has responsibility for one or more <90 Day Storage Area). | 293 | Must complete appropriate training within 6 months of assuming duty. May only work under supervision until training is complete. |
| OB/OD Treatment Unit Worker (Treats hazardous waste at an OB/OD Unit). | 256 | Must complete appropriate training within 6 months of assuming duty. May only work under supervision until training is complete. |
| Waste Management Coordinator | 135 | Must complete training outlined in LS 105-01.0. |

6.0 **PRECAUTIONS AND LIMITATIONS**

6.1 General Precautions

- Before starting any new waste generating process or changing an existing process, the generator shall contact the WMC for assistance in planning for the waste that will be generated.
- Before accumulating wastes, including radioactive and radioactively contaminated materials or equipment, the generator shall contact a WMC for assistance in characterizing the waste and completing necessary forms. For radioactive waste or radioactively contaminated or suspect contaminated materials or equipment, an RCT shall be contacted to facilitate characterization of the waste.
- Because of the problems associated with mixed waste, a WMC shall be contacted for assistance in possibly avoiding the creation of mixed waste. The WMC will also aid in characterization of the waste, completing necessary forms, and determining if there is a path for the waste generated.

- If in doubt about waste characterization or storage issues, contact a WMC.
- As appropriate, proper personal protective equipment shall be employed when handling waste (contact your supervisor, IH and/or RCT).
- Abbreviations are not acceptable in labeling hazardous waste. The words "hazardous waste" and the common chemical name(s) of the constituents causing the waste to be hazardous must be legibly spelled out on any hazardous waste container. Chemical formulas are not acceptable unless the compound does not have a common chemical name.
- All operations and waste management practices will adhere to DX Division SOPs, permits, DOE Explosives Safety Manual, DX Division Operations Manual, WAC and any other relevant documents to ensure the health and safety of DX Division employees and anyone else in the area.
- A WMC will assist the waste generator on the proper characterization and treatment of explosive wastes at an appropriate TSDF (OB/OD, HEWTF, or TA-16 Burn Ground).
- For a complete listing of the hazardous waste management requirement see LIR 404-00-03. For a complete listing of the generator waste certification program requirements see LIR 404-00-01.
- Individually store pieces of explosive, as appropriate, to prevent friction of parts.
- If ignitable waste is being stored then appropriate fire codes must be followed. Contact Facility Management's Zone Team Leader for more information regarding fire codes.
- Waste contaminated with volatile or semi-volatile organic compounds must be stored in airtight containers to prevent the release of organic vapors into the atmosphere. For cellulose products contaminated with these compounds a Zip-lock bag can be used to prevent the release of vapors and then placed in the main waste container.
- The weight of explosive waste shall be determined to ensure that the posted explosives weight limit of the operations or storage area is not exceeded.
- Waste explosive in powder, consolidated or liquid form must be properly stored both as explosive and hazardous waste.

7.0 PROCEDURAL STEPS

7.1 Storage Area Requirements

The following sections are an abbreviated DX-specific synopsis of LANL policies and RCRA hazardous waste storage requirements.

7.1.1 Universal Waste Area (UWA)

A UWA is for the accumulation of specific types of hazardous or mixed waste. The three (3) types of universal waste are: 1) Batteries – for example: lead acid, silver, mercury, or lithium batteries; 2) Pesticides; and 3) Mercury containing thermostats. A quick reference sheet will be provided at each UWA which will detail all appropriate requirements.

7.1.2 Satellite Accumulation Area (SAA)

A SAA may serve a process, a room or a suite of rooms in the immediate vicinity. The accumulation area may serve more than one room/area provided that physical and/or administrative controls/policies govern the access to the SAA. Physical controls of the SAA can be assured by access control to the area or room, including, but not limited to, door locks and cabinet locks. Administrative controls must include, but are not limited to, a consultation with the WMC prior to the establishment of the SAA, the posting of the name and phone number of the storage area contact and establishment of a list of "authorized users" of the SAA. The persons on this list are the only waste generators that may use this SAA (See Attachment No. 7). Multiple users of an SAA will have their names or their waste profile numbers on their respective containers or inventory system.¹ If different waste generators generate the same waste stream, they may agree to share a waste container. SAAs not secured by physical controls must have administrative controls in place. SAAs located outdoors must have physical controls. If at any time the waste generator has difficulty following this policy the WMC must be contacted. A quick reference sheet will be provided at each SAA which will detail all appropriate requirements.

7.1.3 < 90 Day Storage Areas

The person placing the waste in the <90 day storage area shall write on the container the date the waste was first placed in the <90 day storage area. The <90 day storage area contact shall have knowledge of the kinds, compatibility and amounts of waste being stored. Generators may not place waste in the area without the express knowledge and consent of the storage area contact. Unless performing his/her own inspections, prior to placing waste in a <90 day storage area a generator shall contact the WMC so that the required inspection (See Attachment No. 8) may be conducted that same day. A WMC shall also be contacted the same day waste is removed from a <90 Day Storage Area. Two-way communications must be present when any operations or inspections take place. A quick reference sheet will be provided at each <90 Day Storage Area which will detail all appropriate requirements.

7.1.4 Open Burn/Open Detonation Units (OB/OD)

¹ An inventory system may include, but is not limited to, a log sheet/book, which indicates the type of waste put in a container, the date, by whom, and the volume.
OB/OD units have strict requirements, which are found in each unit's permit or interim status documents and in 40 CFR 265. Operating records for the units must be retained for a minimum of 3 years after formal closure is complete, and must include:

- Approved WPFs or an equivalent description of the waste, the quantity of each hazardous waste stream received, and date of treatment;
- Summary reports and details of all incidents that require implementing the Contingency Plan;
- Records and results of required inspections and corrective actions when required.
- See DX-4 SOP 28, Operations of OB/OD's and TA-36-12 Burn Area (CAA), for details on operations.

7.2 Notification of Storage Area Deficiency

The WMC works with the waste generators to ensure compliance with applicable regulations regarding handling, treating and storing of waste. The WMCs also have a responsibility to the DX Division Director and DX line management to keep them informed in the event of employees' non-compliance with State and federal laws and Laboratory policies. The DX Division RCRA Self Inspection Checklist (See Attachment No. 9) may be used as a communication tool between the WMCs and line management. Copies of the checklist must be forwarded to the respective Group Leader or Deputy Group Leader, ES&H Officer and Division ES&H Coordinator.

7.3 DX Division Self-Inspection Program

The WMC will conduct a formal self-inspection of all RCRA regulated units (UWAs, SAAs, <90 Day Storage Areas, and OB/OD units) by the end of each calendar month. A checklist (See Attachment No. 9) will be used, the information will be summarized and sent to the DX Division Director by the 10th of the following month. This summary will then be sent, as required, to the Associate Laboratory Director for Operations by the 15th of the month. The individual WMC's summaries will be retained for three (3) years as part of DX Divisions operating records for RCRA compliance.

7.4 Waste Streams

The following is a list of waste streams specific to DX Division operations and requirements specific to those waste streams. For a list of general requirements see section 6.0 Precautions and Limitation of this SOP.

7.4.1 Explosives and Explosives Contaminated Waste (non firing site debris)

In addition to the general requirements in the Precautions and Limitation section 6.0 of this SOP the following are required for this particular waste stream:

7.4.1.1 Keep waste stream segregated in securely closed containers.

7.4.2 Liquid Hazardous and Liquid Explosives Wastes

In addition to the general requirements in the Precautions and Limitation section 6.0 of this SOP the following are required for this particular waste stream:

7.4.2.1 Place material in a securely closed container, such as a Nalgene bottle (only liquids containing less than 33% explosive may be placed in a screw top container).

7.4.2.2 Place the container in secondary containment such as a spill tray adequate to contain the volume of waste being accumulated.

7.4.3 Firing Site Debris

Firing site debris consists of all materials resulting from the partial or complete detonation of an explosives operation, and may or may not be considered a hazardous waste. All material should be carefully segregated according to its hazard. Any firing site debris managed as municipal refuse must have an approved WPF. The WPF must be available to facilities accepting DX firing site debris.

7.4.3.1 Waste Explosives

A WMC shall be contacted for guidance on proper treatment at an OB/OD unit.

7.4.3.2 Explosives Contaminated Waste

Any material that is visibly contaminated with explosives shall be segregated into burnable (wood, cardboard, paper, etc.) and non-burnable (glass, metal, cables, etc). The presence of soot on various materials used in the course of firing a shot does not, of itself, constitute explosives contamination. 7.4.3.3 DU Contaminated Waste

Note: For any waste contaminated with DU, also see DX-DO: SOP 06 "Radiological Controls".

7.4.3.3.1 Burnable firing site debris that is DU contaminated and not explosive contaminated will be treated at a Clean Air Act permitted area (see DX-4: SOP 28 for more information).

7.4.3.3.2 Burnable firing site debris that is DU and explosive contaminated will be treated at an appropriate OB/OD unit (see DX-4: SOP 28 for more information).

7.4.3.4 Other Firing Site Debris

Waste not meeting any of the above categories but suspected to contain a hazardous constituent (See Attachment No. 1) should be segregated and characterized by the waste generator for proper storage/treatment. Waste streams which are known to contain no radioactive material and no explosives or other regulated constituents should be sent to the County landfill as municipal refuse or recycled as appropriate. Items that have trace (non-visible) amounts of explosive and are not reactive, should not be considered explosive-contaminated, and may be managed as municipal refuse. Such items can include shot stands, insulation, shot assembly aids, firing cables, optical components including mirrors, sand bags, barriers, electrical equipment, and metal assemblies.

7.4.4 Detonators

Complete detonator assemblies (those loaded with explosive) and intended for treatment will be considered to be explosive waste. Individual detonator components intended for disposal will be characterized according to their constituents (explosives, RCRA metals, etc.). Spent detonators with no visible residual explosive and no RCRA metals (See Attachment No. 1) may be disposed as municipal refuse.

7.4.5 Trash in Explosive Areas

Care should be exercised to segregate trash from explosive contaminated waste in explosive areas such as Prep Rooms. Not all waste from a preparation room is explosive contaminated. Containers should be kept for each type of waste for proper segregation and shall be clearly labeled as to the contents. Trash that is NOT contaminated with explosives should be placed in a receptacle for trash destined for the County landfill.

7.4.6 Management of Other Radioactive Wastes

Before beginning a process that may create a new radioactive or mixed waste stream, a WMC shall be contacted for assistance in planning for the proper management of any waste generated and determining if there is a path for waste treatment, storage, or disposal.

7.4.7 Treatment of Waste Explosives from Sumps and Settling Tanks

Treatment of waste from sumps and settling tanks is controlled by ESA. The Waste Generator shall notify the WMC when wastes have accumulated in the sumps and/or settling tank. The WMC will assist in completing the proper paperwork and arranging for pick-up and treatment by ESA (See Attachment No. 10). An approved WPF must be available for the waste stream before ESA will accept the waste for treatment. ESA will not treat any waste not meeting their WAC, a copy of which is available from any DX WMC. Changes to liquid waste streams destined for the TA-16 HEWTF should be made only after consideration is given to whether the waste stream will continue to meet the ESA HEWTF WAC. Contact a WMC for assistance. An approved WPF must be available for the waste stream before ESA will accept the waste stream before ESA will accept the waste for treatment.

7.5 Waste Minimization

Waste minimization will be handled according to the DX-Division Operations Manual, AR 10-8, and SOP/GWCP.

Waste generated from any operation must be minimized as much as technically and economically feasible. To meet this objective, the waste minimization practices of material substitution, hazard segregation, recycling and good housekeeping must be incorporated into all waste generating activities. All waste generators are responsible for making every practical effort to minimize the amount of waste being produced. Waste generators shall make every reasonable effort to reduce the volume of radioactive waste generated by controlling the movement of materials through identified radioactive material work areas. Contact a WMC for assistance with waste minimization practices.

7.6 Orphan or Unknown Waste

If orphan or unknown waste is found contact your WMC immediately. Never attempt to open the container. Store the orphan or unknown waste in the safest way possible and in an established SAA (preferred) or <90 Day Storage Area. Segregate this waste from other wastes in the area, label "PENDING HAZARDOUS WASTE DETERMINATION" and place the date the waste was found on the label. The WMC will see that sampling and analysis takes place as soon as possible.

7.7 Classified Waste

Classified or sensitive waste that is also hazardous or mixed waste is subject to all the requirements in this SOP. All reasonable attempts must be made to declassify/desensitize the waste.

7.8 Treatment by the Waste Generator

Treatment by the waste generator (without a permit) is allowed under the current RCRA regulations, provided all specified regulatory requirements are met. Contact a WMC BEFORE conducting treatment or if you are interested in conducting generator treatment on a waste stream.

7.9 Recyclable Materials

When practical, discarded materials must be recycled or salvaged according the Laboratory procedures. The following materials and items are prime candidates for recycling:

- Elemental mercury,
- Precious and strategic metals,
- Compressed gas cylinders,
- Lead-acid batteries,
- Solvents,
- Unused laboratory chemicals,
- Scrap metal and solder waste,
- Uncontaminated soil (soil to which no hazardous or radioactive constituents have been added),
- Used oil from various sources, and
- Empty drums.

Contact a WMC regarding recyclable materials.

Note: Compressed gas cylinders can be returned to the Gas Processing Facility but compressed gas cylinders above atmospheric pressure that cannot be returned to the Gas Processing Facility must be handled as waste by the generating organization.

7.10 Emergency Procedures

• Dial 911

In the event of an emergency, the Site Emergency Plan (SEP) and DX-DO: SOP 07 Division Emergency Guide shall be followed. The SEP and DX-DO: SOP 07 shall be available in the building and the operators shall be familiar with its contents.

7.11 Quality Assurance Program

DX Division has a Quality Assurance Program incorporated in the DX Division Operations Manual.

8.0 **REQUIRED RECORDS**

- Waste Profile Form (WPFs)
- Chemical Waste Disposal Requests (CWDRs)
- Hazardous Waste Manifest
- Waste characterization documentation (analytical data, AK, radiological survey, etc.)
- Non Conformance Reports (NCRs)
- Storage Area Deficiency Notification
- DX Division Self Inspection documentation
- Hazardous and Mixed Waste Facility Inspection Record Form (IRF)
- Training Records

9.0 **REFERENCES**

- DOE Explosives Safety Manual
- DX-Division Operations Manual
- DX Division Training Plan
- DX-DO: SOP 06 Radiological Controls
- DX-DO: SOP 07 Division Emergency Guide
- DX-4: SOP 28 Operations of OB/ODs and TA-36-12 Burn Area (CAA) Operations
- LIR 404-00-01.2, "Waste Acceptance, Characterization, and Certification Program"
- LS105-01.0, Waste Management Coordinator Program
- LIR404-00-03.0, "Hazardous and Mixed Waste Requirements for Generators"
- AR 10-8, "Waste Minimization"
- PLAN-WASTEMGMT-002, R.1.3, "LANL Waste Management Facilities WAC"
- Atomic Energy Act of 1954
- Resource Conservation Recovery Act (40 CFR 260 through 279)

- DOE Order 5820
- DOE Order 5400.5
- HEWTF Waste Acceptance Criteria
- Explosive Review Committee
- LIR300-00-01 Safe Work Practices

10.0 ATTACHMENTS

- 1. F-, P-, and U-listed wastes; and TCLP metals (40 CFR 261)
- 2. Chemical Waste Disposal Request (CWDR)
- 3. Waste Profile Form (WPF)
- 4. List of DX Division WMCs and geographic areas of responsibility
- 5. Contacting a DX-Division Waste Management Coordinator
- 6. Log of Waste
- 7. Persons Authorized to Use This Satellite Accumulation Area (SAA)
- 8. Hazardous and Mixed Waste Facility Inspection Record Form (IRF)
- 9. DX Division RCRA Self Inspection Checklists
- 10. Disposal at ESA Burning Ground

| Attachmer | nt 1 |
|-----------|------|
|-----------|------|

P-Listed Hazardous Waste Constituents— Unused Chemicals (Acutely Hazardous)

40 CFR 261.33(e)

Legend

The following letter codes may appear in parentheses after some of the constituents.

(C) Corrosive waste

(E) Toxicity characteristic waste

(I) Ignitable waste

(II) Acute hazardous waste

(R) Reactive waste

(T) Toxic waste

| (=) = = = = = = = = = = = = = = = = = = | |
|---|------|
| Acetaldehyde, chloro- | P023 |
| Acetamide, 2-fluoro- | P057 |
| Acetamide, N-(aminothioxomethyl)- | P002 |
| Acetic acid, fluoro-, sodium salt | P058 |
| 1-Acetyl-2-thiourea | P002 |
| Acrolein | P003 |
| Aldicarb | P070 |
| Aldrin | P004 |
| Allyl alcohol | P005 |
| Aluminum phosphide (R,T) | P006 |
| 5-(Aminomethyl)-3-isoxazolol | P007 |
| 4-Aminopyridine | P008 |
| Ammonium picrate (R) | P009 |
| Ammonium vanadate | P119 |
| Argentate(1-), bis(cyano-C)-, potassium | P099 |
| Arsenic acid H 3 AsO 4 | P010 |
| Arsenic oxide As 2 O 3 | P012 |
| Arsenic oxide As 2 O 5 | P011 |
| Arsenic pentoxide | P011 |
| Arsenic trioxide | P012 |
| Arsine, diethyl- | P038 |
| Arsonous dichloride, phenyl- | P036 |
| Aziridine | P054 |
| Aziridine, 2-methyl- | P067 |
| Barium cyanide | P013 |
| Benzenamine, 4-chloro- | P024 |
| Benzenamine, 4-nitro- | P077 |
| Benzene, (chloromethyl)- | P028 |
| 1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-,(R)- | P042 |
| Benzeneethanamine, alpha, alpha-dimethyl- | P046 |
| Benzenethiol | P014 |
| | |
| 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & | P001 |
| salts, when present at concentrations greater than 0.3% | |

| Beryflium P015 Bromoacetone P017 Brucine P018 2-Butanone, 3.3-dimethyl-1-(methylthio)-, O-[(methyl- aminolcarbonyl] oxime P045 aminolcarbonyl] oxime P021 Calcium cyanide P021 Calcium cyanide Ca(CN)2 P021 Carbond skulfide P022 Carbon disulfide P023 D-Chloroanline P024 1-(o-Chlorophenyl)thiourea P026 3-Chloropropionitrile P027 Copper cyanide Cule Cyanogen P031 Cyanogen chloride (CN)Cl P033 Cyanogen chloride (CN)Cl P036 Dichloromethyl ether P016 Dichlorophenylarsine P036 Dichlorophenylarsine P041 Diethylp-introphenyl phosphate P041 Diethylasine P043 Distopropylflucorophosphate (DFP) P043 1.4.5.8-Dimethanonaphthalen | Benzyl chloride | P028 |
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| Bromoacetone P017 Brucine P018 2-Butanone, 3.3-dimethyl-1-(methylthio)-, O-[(methyl- amino)carbonyl] oxime P045 Calcium cyanide Ca(CN)2 P021 Calcium cyanide Ca(CN)2 P021 Carbon disulfide P022 Carbonic dichloride P095 Chloroacetaldehyde P023 p-Chloroanline P026 1-(o-Chlorophenyl)thiourea P026 3-Chloroppenyl)thiourea P026 3-Chloroppenylithiourea P026 3-Chloroppenylithiourea P026 3-Chloroppenylithiourea P026 3-Chloroppenylithiourea P026 3-Chloroppenylithiourea P027 Copper cyanide Cu(CN) P029 Cyanogen chloride P033 Cyanogen chloride P033 Cyanogen chloride P033 Cyanogen chloride (CN)Cl P033 Cyanogen chloride (CN)Cl P036 Dichlorophenylarsine P036 Dichlorophenylarsine P036 Dichlorophenylarsine P038 Disopropylfluorophosphate (DFP) P040 Diethyl -p-nitrophenyl phosphorothioate P041 Diethyl aska-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta, 8abeta) 1.4.5.8-Dimethanonaphthalene, 1.2.3.4 | Beryllium | P015 |
| Brucine P018 2-Butanone, 3.3-dimethyl-1-(methylthio)-, O-[(methyl- amino]carbonyl] oxime P045 Calcium cyanide P021 Calcium cyanide Ca(CN)2 P021 Carbon disulfide P022 Carbon disulfide P022 Carbon disulfide P023 p-Chloroacetaldehyde P024 1-(o-Chlorophenyl]thiourea P026 3-Chloropropionitrile P027 Copper cyanide P029 Cyanogen P029 Cyanogen P031 Cyanogen chloride (CN)Cl P033 C-Scylenckyl-4.6-dimitrophenol P033 Dichloromethyl ether P036 Dichloromethyl ether P036 Dichlorophenylarsine P036 Diedrin P037 O.O-Diethyl O-pyrazinyl phosphorothioate P040 Diethyl-p-nitrophenyl phosphate P041 Diethyl-p-nitrophenyl phosphate P043 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexachloro- 1.4.5.8-0.3.4.6.6.a.7.7.a-octahyro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)- 2.7:3.6-Dimethanonaphth[2.3-b]oxirene, 3. | Bromoacetone | P017 |
| 2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[(methyl-aminolcarbonyl] oxime P045 aminolcarbonyl] oxime P021 Calcium cyanide Ca(CN)2 P021 Carbon disulfide P022 Carboni dichloride P095 Chloroacetaldehyde P023 p-Chloroaniline P024 1-6-Chlorophenyllthiourea P026 3-Chloropropionitrile P027 Copper cyanide Cu(CN) P029 Cyanogen chloride P030 Cyanogen chloride P033 Cyanogen chloride P036 Dichloromethyl ether P016 Dichloromethyl ether P036 Dieldrin P037 O.O-Diethyl O-pyrazinyl phosphorothioate P040 Diethyl-p-nitrophenyl phosphate P041 Diethylarsine P038 Disopropylifuorophosphate (DFP) P043 1.4.5.8-Dimethanonaphthalene. 1.2.3.4.10.10-hexachloro- 1.4.4.5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta, 8abeta)- | Brucine | P018 |
| aminolcarbonyil oxime P021 Calcium cyanide CalCNj2 P021 Carbon disulfide P022 Carbonic dichloride P095 Chloroactaldehyde P024 1-(o-Chlorophenyil)thiourea P026 3-Chloropropionitrile P027 Copper cyanide P027 Copper cyanide P027 Copper cyanide Cu(CN) P029 Cyanogen chloride Cu(CN) P031 Cyanogen chloride (CN)Cl P033 Cyanogen chloride (CN)Cl P033 Cyanogen chloride (CN)Cl P033 Cyanogen chloride (CN)Cl P034 Dichloromethyl ether P016 Dichloromethyl ether P016 Dichlorophenylarsine P036 Diedrin P037 O.O-Diethyl O-pyrazinyl phosphorothioate P040 Diethyl-p-nitrophenyl phosphate (DFP) P043 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexachloro- 1.4.4.5.8.06.a.7.7a-octahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta, 8abeta)- 2.7:3.6-Dimethanonaphthalene, 1.2.3.4.10.10-hexachloro- 1.4.5.8.06.a.7.7a-octahydro-, (1alpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)- 2.7:3.6-Dimethan | 2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[(methyl- | P045 |
| Calcium cyanide Ca(CN)2 PO21 Calcium cyanide Ca(CN)2 PO21 Carboni Giulfide PO22 Carboni Giulfide PO23 p-Chloroacetaldehyde PO23 p-Chloroaniline PO24 1-(o-Chlorophenyl)thiourea PO26 3-Chloropropionitrile PO27 Copper cyanide Cu(CN) PO29 Cyanogen choride PO30 Cyanogen choride PO33 Cyanogen chloride (CN)Cl PO33 Cyanogen chloride (CN)Cl PO33 Cyanogen chloride (CN)Cl PO33 Cyclohexyl-4, 6-dinitrophenol PO36 Dichloromethyl ether PO16 Dichloromethyl ether PO36 Diedhyl-p-nitrophenyl phosphorothioate PO37 O.O-Diethyl O-pyrazinyl phosphorothioate PO40 Diethyl-p-nitrophenyl phosphate PO41 Diethyl-s.8.6.a.hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta, 8abeta)- PO43 < | amino)carbonyl] oxime | |
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| Carbon disulfide P022 Carbonic dichloride P095 Chloroacetaldehyde P023 p-Chloroaniline P024 1-(o-Chlorophenyl)thiourea P026 3-Chloropropionitrile P027 Copper cyanide P029 Copper cyanide Cu(CN) P029 Cyanogen chloride P031 Cyanogen chloride (CN)Cl P033 Cyanogen chloride (CN)Cl P034 Dichloromethyl ether P016 Dichloromethyl ether P036 Diedirin P037 O.O-Diethyl O-pyrazinyl phosphorothioate P040 Diethyl-p-nitrophenyl phosphate P041 Diethylarsine P038 Disopropylfluorophosphate (DFP) P043 Disopropylfluorophosphate (DFP) P043 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexachloro- P040 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro- P043 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro- P043 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro- P043 2.7:3.6-Dimethanonaphth[2.3-bloxirene, 3.4.5.6.9.9-hexachloro- P037 1 | Calcium cyanide Ca(CN)2 | P021 |
| Carbonic dichloride P095 Chloroacetaldehyde P023 p-Chloroaniline P024 1-{o-Chlorophenyl]thiourea P026 3-Chloropropionitrile P027 Copper cyanide P029 Copper cyanide Cu(CN) P029 Cyanogen P031 Cyanogen chloride P033 Cyanogen chloride (CN)Cl P033 C-Cyclohexyl-4.6-dinitrophenol P034 Dichloromethyl ether P016 Dichloromethyl ether P016 Dichlorophenylarsine P036 Dieldrin P037 O.O-Diethyl O-pyrazinyl phosphorothioate P040 Diethyl-p-nitrophenyl phosphate P041 Diethylarsine P043 Disopropylfluorophosphate (DFP) P043 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.4.5.8.Ba-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta) 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.5.8-Dimethanonaphthalene, 1.2.3.4, 10, 10-hexachloro- 1.4.5.8-Dinethanonaphthalene, 1.2 | Carbon disulfide | P022 |
| Chloroacetaldehyde P023 p-Chloroaniline P024 1-(o-Chlorophenyl)thiourea P026 3-Chloropropionitrile P027 Copper cyanide Cu(CN) P029 Cyanogen P031 Cyanogen chloride P033 Cyanogen chloride (CN)Cl P033 Cyanogen chloride (CN)Cl P033 2-Cyclohexyl-4,6-dinitrophenol P034 Dichloromethyl ether P036 Dichloromethyl ether P036 Dichlorophenylarsine P037 O.O-Diethyl O-pyrazinyl phosphorothioate P041 Diethyl-p-nitrophenyl phosphate P041 Diethylarsine P038 Diisopropylfluorophosphate (DFP) P043 1.4.5.8-Dimethanonaphthalene. 1.2.3.4.10.10-hexachloro- 1.4.4a.5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta)- 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro- P060 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro- P060 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro- P060 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro- P060 1.4.5.8-Dimethanonaphthalene, 1.2.3.4.5.6.9.9-hexachloro- P071 | Carbonic dichloride | P095 |
| p-Chloroaniline P024 1-(o-Chlorophenyllthiourea P026 3-Chloropropionitrile P027 Copper cyanide P029 Copper cyanide Cu(CN) P029 Cyanogen P031 Cyanogen chloride P033 Cyanogen chloride (CN)Cl P033 C-cyclohexyl-4,6-dinitrophenol P034 Dichloromethyl ether P016 Dichlorophenylarsine P036 Diethlorophenyl phosphorothioate P040 Diethyl-p-nitrophenyl phosphate P041 Diethyl-p-nitrophenyl phosphate (DFP) P043 1.4.5.8-Dimethanonaphthalene. 1.2.3.4.10.10-hexachloro- 1.4.4.a,5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta)- 1.4.5.8-Dimethanonaphthalene. 1.2.3.4.10.10-hexa-chloro- 1.4.4.a,5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)- 2.7:3.6-Dimethanonaphthalene, 1.2.3.4.10.10-hexa-chloro- 1.4.5.2.2.2.3.6.6a,7.7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 7.7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 7.7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-, and metabolites P037 2.7:3.6-Dimethanonaphth[2.3-b]oxirene, 3.4.5.6.9.9-hexachloro- 1.4.2.2a, 3.6.6a, 7.7a-octahyro-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha]-, and metabolites P044 | Chloroacetaldehyde | P023 |
| 1-(o-Chlorophenyl)thioureaP0263-ChloropropionitrileP027Copper cyanideP029Copper cyanide Cu(CN)P029CyanogenP031Cyanogen chlorideP033Cyanogen chlorideP033Cyanogen chlorideP033Cyanogen chlorideP033Cyanogen chlorideP033Cyanogen chlorideP034Dichloromethyl etherP016DichlorophenylarsineP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP041Diethyl-p-nitrophenyl phosphateP041Diethyl-p-nitrophenyl phosphateP0431.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexachloro-P0441.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro-P0601.4.4a,5.8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0602.7:3.6-Dimethanonaphth[2.3-b]oxirene, 3.4.5.6.9.9-hexachloro-P0371.2.2a,3.6.6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha]-, and metabolitesP0512.7:3.6-Dimethanonaphth[2.3-b]oxirene, 3.4.5.6.9.9-hexachloro-P0511.2.2a,3.6.6a,7,7a-octahyro-,(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha]-, and metabolitesP044alpha, alpha-DimethylphenethylamineP0464.6-Dinitro-o-cresol, & saltsP0472.4-DinitrophenolP048 | p-Chloroaniline | P024 |
| 3-Chloropropionitrile P027 Copper cyanide P029 Copper cyanide Cu(CN) P029 Cyanogen P031 Cyanogen chloride P033 Cyanogen chloride (CN)CI P033 2-Cyclohexyl-4.6-dinitrophenol P034 Dichloromethyl ether P016 Dichlorophenylarsine P037 O.O-Diethyl O-pyrazinyl phosphorothioate P040 Diethyl-p-nitrophenyl phosphate P041 Diethylorophosphate (DFP) P043 1.4.5.8-Dimethanonaphthalene, 1.2.3.4,10,10-hexachloro- P036 1.4.5.8-Dimethanonaphthalene, 1.2.3.4,10,10-hexachloro- P040 1.4.5.8-Dimethanonaphthalene, 1.2.3.4,10,10-hexachloro- P060 1.4.5.8-Dimethanonaphthalene, 1.2.3.4,10,10-hexa-chloro- P051 1.2.2.a,3.6,6a,7,7a-octahytro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7a | 1-(o-Chlorophenyl)thiourea | P026 |
| Copper cyanideP029Copper cyanide Cu(CN)P029Cyanides (soluble cyanide salts), not otherwise specifiedP030CyanogenP031Cyanogen chlorideP033Cyanogen chloride (CN)ClP0332-Cyclohexyl-4,6-dinitrophenolP034Dichloromethyl etherP016Dichloromethyl etherP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Disopropylfluorophosphate (DFP)P0431,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-P0041,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta)-P0602,7:3,6-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601,4,5,8-Dimethanonaphthalene, 1,2,3,4,5,6,9,9-hexachloro-P0511,2,2,a,3,6,6,a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-P0511,2,2,a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP044DimethoateP046P0472,4-DinitrophenolP047 | 3-Chloropropionitrile | P027 |
| Copper cyanide Cu(CN)P029Cyanides (soluble cyanide salts), not otherwise specifiedP030CyanogenP031Cyanogen chlorideP033Cyanogen chloride (CN)ClP0332-Cyclohexyl-4,6-dinitrophenolP034Dichloromethyl etherP016DichlorophenylarsineP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Diisopropylfluorophosphate (DFP)P0431,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-P0041,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta)-P0602,7:3,6-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601,2,2,a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-P0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-P0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-P0442,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP044DimethoateP0464.6-Dinitro-o-cresol, & saltsP0472 | Copper cyanide | P029 |
| Cyanides (soluble cyanide salts), not otherwise specifiedP030CyanogenP031Cyanogen chlorideP033Cyanogen chloride (CN)ClP0332-Cyclohexyl-4,6-dinitrophenolP034Dichloromethyl etherP016DichlorophenylarsineP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Disopropylfluorophosphate (DFP)P0431.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexachloro-P0041.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexa-chloro-P0601.4.4a,5.8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta)-P0602.7:3.6-Dimethanonaphthalene, 1.2.3.4,10,10-hexa-chloro- 1.4.2a,3.6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372.7:3.6-Dimethanonaphth[2.3-b]oxirene, 3.4,5,6,9,9-hexachloro- 1a.2.2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0512.7:3.6-Dimethanonaphth[2.3-b]oxirene, 3.4,5,6,9,9-hexachloro- 1a.2.2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP044alpha, alpha-DimethylphenethylamineP0464.6-Dimitro-o-cresol, & saltsP0472.4-DimitrophenolP048 | Copper cyanide Cu(CN) | P029 |
| CyanogenP031Cyanogen chlorideP033Cyanogen chloride (CN)ClP0332-Cyclohexyl-4.6-dinitrophenolP034Dichloromethyl etherP016DichlorophenylarsineP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Diisopropylfluorophosphate (DFP)P0431.4.5,8-Dimethanonaphthalene, 1.2.3.4,10,10-hexachloro-P0441.4.5,8-Dimethanonaphthalene, 1.2.3.4,10,10-hexa-chloro-P0601.4.4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0602.7:3,6-Dimethanonaphthalene, 1.2.3,4,10,10-hexa-chloro-P0601.4.4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3,6-Dimethanonaphthalene, 1.2.3,4,10,10-hexa-chloro-P0601.4.2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1.a.2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-P0512.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1.a.2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP044DimethoateP044Alpha, alpha-DimethylphenethylamineP0464.6-Dinitro-o-cresol, & saltsP0472.4-DinitrophenolP048 | Cyanides (soluble cyanide salts), not otherwise specified | P030 |
| Cyanogen chlorideP033Cyanogen chloride (CN)ClP0332-Cyclohexyl-4,6-dinitrophenolP034Dichloromethyl etherP016Dichloromethyl etherP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP043Disopropylfluorophosphate (DFP)P0431.4,5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro-P0441.4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601.4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta)-P0602.7:3,6-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-P0601.4,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0512.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-P0512.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-P0442.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-P044 | Cyanogen | P031 |
| Cyanogen chloride (CN)ClP0332-Cyclohexyl-4,6-dinitrophenolP034Dichloromethyl etherP016DichlorophenylarsineP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Diisopropylfluorophosphate (DFP)P0431.4,5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro-P0041.4,5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro-P0041.4,5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexa-chloro-P0601.4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8abeta)-P0602.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahytro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0512.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahytro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472.4-DinitrophenolP048 | Cyanogen chloride | P033 |
| 2-Cyclohexyl-4.6-dinitrophenolP034Dichloromethyl etherP016DichlorophenylarsineP036DieldrinP037O,O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Disopropylfluorophosphate (DFP)P0431.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexachloro- 1.4.4a.5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0601.4.5.8-Dimethanonaphthalene, 1.2.3.4.10.10-hexa-chloro- 1.4.4a.5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3.6-Dimethanonaphth[2,3-b]oxirene, 3.4.5.6.9.9-hexachloro- 1a.2.2a,3.6.6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0512.7:3.6-Dimethanonaphth[2,3-b]oxirene, 3.4.5.6.9.9-hexachloro- 1a.2.2a,3.6.6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051DimethoateP044DimethoateP047DimethoateP047DimethoateP047DimethoateP047 | Cyanogen chloride (CN)Cl | P033 |
| Dichloromethyl etherP016DichlorophenylarsineP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Diisopropylfluorophosphate (DFP)P0431.4.5.8-Dimethanonaphthalene, 1.2.3.4,10,10-hexachloro- 1.4.4a.5,8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0041.4.5.8-Dimethanonaphthalene, 1.2.3.4,10,10-hexachloro- 1.4.4a.5,8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3.6-Dimethanonaphth[2,3-b]oxirene, 3.4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha]-P0512.7:3.6-Dimethanonaphth[2,3-b]oxirene, 3.4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha]-, and metabolitesP051DimethoateP044Alpha. alpha-DimethylphenethylamineP0464.6-Dinitro-o-cresol, & saltsP0472.4-DinitrophenolP048 | 2-Cyclohexyl-4,6-dinitrophenol | P034 |
| DichlorophenylarsineP036DieldrinP037O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Diisopropylfluorophosphate (DFP)P0431.4.5.8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro- 1.4.4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0601.4.5.8-Dimethanonaphthalene, 1.2,3,4,10,10-hexa-chloro- 1.4.4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha]-P0512.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha]-, and metabolitesP051DimethoateP044Alpha. alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | Dichloromethyl ether | P016 |
| DieldrinP037O,O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-nitrophenyl phosphateP041DiethylarsineP038Diisopropylfluorophosphate (DFP)P0431.4.5.8-Dimethanonaphthalene, 1.2.3.4.10,10-hexachloro- 1.4.4a,5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0041.4.5.8-Dimethanonaphthalene, 1.2,3.4,10,10-hexa-chloro- 1.4.4a,5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3.6-Dimethanonaphthalene, 1.2,3.4,10,10-hexa-chloro- 1.4.4a,5.8.8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta]-P0602.7:3.6-Dimethanonaphth[2,3-b]oxirene, 3.4,5.6.9,9-hexachloro- 1a,2,2a,3.6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0512.7:3.6-Dimethanonaphth[2,3-b]oxirene, 3.4,5.6.9,9-hexachloro- 1a,2,2a,3.6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051Dimethoate Alpha, alpha-Dimethylphenethylamine 4.6-Dinitro-o-cresol, & saltsP0472.4-DinitrophenolP048 | Dichlorophenylarsine | P036 |
| O.O-Diethyl O-pyrazinyl phosphorothioateP040Diethyl-p-nitrophenyl phosphateP041DiethylarsineP038Diisopropylfluorophosphate (DFP)P0431.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro-P0041.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro-P0041.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexa-chloro-P0601.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexa-chloro-P0601.4.4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051Dimethoate DimethoateP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | Dieldrin | P037 |
| Diethyl-p-introphenyl phosphateP041DiethylarsineP038Disopropylfluorophosphate (DFP)P0431.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro- 1.4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0041.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexa-chloro- 1.4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051DimethoateP044Alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | O.O-Diethyl O-pyrazinyl phosphorothioate | P040 |
| DietnylarsineP038Diisopropylfluorophosphate (DFP)P0431.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexachloro- 1.4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0041.4.5,8-Dimethanonaphthalene, 1.2,3,4,10,10-hexa-chloro- 1.4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-P0512.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442.7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP041 | Diethyl-p-nitrophenyl phosphate | P041 |
| Disopropylituorophosphate (DFP)P0431,4.5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro- 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0041,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro- 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442,7:3,6-Dimethononaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442,4-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | Dietnylarsine | P038 |
| 1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro- 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0041,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro- 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442)imethoateP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | Disopropyilluorophosphate (DFP) | P043 |
| 1,4,3,3-Dimetrialionaphthalene, 1,2,3,4,10,10-nexachloro-P0041,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-P0601,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro- 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-P0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0442,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0412,4-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | 1 4 5 8 Dimethenenenthelene 1 0 0 4 10 10 herreshlere | |
| 1,4,4a,5,8,6a-hexaliyuro-, (Taipita, 4aipita, 4aipita, 4aipita, 5aipita, 8alpha, 8abeta)- P060 1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro- P060 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)- P060 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- P037 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)- P051 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- P051 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolites P044 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- P051 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolites P044 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- P051 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolites P044 2,4-Dinitro-o-cresol, & salts P047 2,4-Dinitrophenol P048 | 1,4,5,6-Dimetrianonapricialene, 1,2,5,4,10,10-nexacinoro- | P004 |
| Oalpha, Oabeta)*1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro- 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP0512,7:3,6-DimethylphenethylamineP0444]pha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | $[1,4,4a,5,6,6a-11exally010-, (1aipila, 4aipila, 4abeta, 5aipila, 8abeta)_$ | |
| 1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro- 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-P0602,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-,(1aalpha, 2beta, 2aalpha, 3beta, 6 alpha, 6abeta, 7beta, 7aalpha)-P0512,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051Dimethoate alpha. alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | | |
| 1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-10002,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051DimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | 1458-Dimethanonanthalene 12341010-beva-chloro- | P060 |
| 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)- 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolites Dimethoate 4,6-Dinitro-o-cresol, & salts 2,4-Dinitrophenol P048 | 1,4,4a,5,8 8a-hexahydro- (lainha 4ainha 4abeta 5beta 8beta | 1000 |
| 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)- 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolites Dimethoate PO44 alpha, alpha-Dimethylphenethylamine PO46 4,6-Dinitro-o-cresol, & salts PO47 2,4-Dinitrophenol PO48 | 8abeta)- | |
| 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- la,2,2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-P0372,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- la,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051Dimethoate alpha, alpha-DimethylphenethylamineP0444,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | | - |
| 1a.2.2a,3,6,6a,7,7a-octahyro-(1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-10012,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051DimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | 2.7:3.6-Dimethanonaphth/2.3-bloxirene_345699-hexachloro- | P037 |
| 6beta, 6aalpha, 7beta, 7aalpha)-2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesDimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | la.2.2a.3.6.6a.7.7a-octahyro-(laalpha, 2beta, 2aalpha, 3beta, | |
| 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- la,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051Dimethoate alpha, alpha-DimethylphenethylamineP0444,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | 6beta, 6aalpha, 7beta, 7aalpha)- | |
| 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051DimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | | |
| 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- la,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP051DimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | | |
| 1a.2.2a,3.6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha, 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolites9044DimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | 2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- | P051 |
| 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolitesP044DimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | 1a,2,2a,3,6,6a,7,7a-octahydro-,(1aalpha, 2beta, 2abeta, 3alpha. | |
| DimethoateP044alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | 6 alpha, 6abeta, 7beta, 7aalpha)-, and metabolites | |
| alpha, alpha-DimethylphenethylamineP0464,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | Dimethoate | P044 |
| 4,6-Dinitro-o-cresol, & saltsP0472,4-DinitrophenolP048 | alpha, alpha-Dimethylphenethylamine | P046 |
| 2,4-Dinitrophenol P048 | 4,6-Dinitro-o-cresol, & salts | P047 |
| | 2,4-Dinitrophenol | P048 |

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| Dinoseb | P020 |
|--|------|
| Diphosphoramide, octamethyl- | P085 |
| Diphosphoric acid, tetraethyl ester | P111 |
| Disulfoton | P039 |
| Dithiobiuret | P049 |
| Endosulfan | P050 |
| Endothall | P088 |
| Endrin | P051 |
| Endrin, & metabolites | P051 |
| Epinephrine | P042 |
| Ethanedinitrile | P031 |
| Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl | P066 |
| ester | |
| Ethyl cyanide | P101 |
| Ethyleneimine | P054 |
| Famphur | P097 |
| Fluorine | P056 |
| Fluoroacetamide | P057 |
| Fluoroacetic acid, sodium salt | P058 |
| Fulminic acid, mercury $(2+)$ salt (R.T) | P065 |
| Heptachlor | P059 |
| Hexaethyl tetraphosphate | P062 |
| Hydrazine, methyl- | P068 |
| Hydrazinecarbothioamide | P116 |
| Hydrocyanic acid | P063 |
| Hydrogen cyanide | P063 |
| Hydrogen phosphide | P096 |
| Isodrin | P060 |
| 3(2H)-Isoxazolone, 5-(aminomethyl)- | P007 |
| Mercury fulminate (R.T) | P065 |
| Mercury, (acetato-O)phenyl- | P092 |
| Methanamine, N-methyl-N-nitroso- | P082 |
| Methane, isocvanato- | P064 |
| Methane, oxybis/chloro- | P016 |
| Methane, tetranitro- (R) | P112 |
| Methanethiol. trichloro- | P118 |
| | |
| 6.9-Methano-2.4.3-benzodioxathiepin, 6.7.8.9.10.10-hexachloro- | P050 |
| 1.5.5a.6.9.9a-hexahydro3-oxide | |
| 4.7-Methano-1H-indene, 1.4.5.6.7.8.8-heptachloro-3a.4.7.7a- | P059 |
| tetrahydro- | |
| Methomyl | P066 |
| Methyl hydrazine | P068 |
| Methyl isocyanate | P064 |
| Methyl parathion | P071 |
| 2-Methyllactonitrile | P069 |
| alpha-Napthylthiourea | P072 |
| Nickel carbonyl | P073 |
| | 1 |

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| Nickel carbonyl Ni(CO)4 , (T-4)- | P073 |
|--|------|
| Nickel cyanide | P074 |
| Nickel cynaide Ni(CN)2 | P074 |
| Nicotine, & salts | P075 |
| Nitric oxide | P076 |
| p-Nitroaniline | P077 |
| Nitrogen dioxide | P078 |
| Nitrogen oxide NO | P076 |
| Nitrogen oxide NO 2 | P078 |
| Nitroglycerine (R) | P081 |
| N-Nitrosodimethylamine | P082 |
| N-Nitrosomethylvinylamine | P084 |
| Octamethylpyrophosphoramide | P085 |
| Osmium oxide OsO 4, (T-4)- | P087 |
| Osmium tetroxide | P087 |
| 7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid | P088 |
| Parathion | P089 |
| Phenol, 2,4,6-trinitro-, ammonium salt (R) | P009 |
| Phenol, 2,4-dinitro- | P048 |
| Phenol, 2-(1-methylpropyl)-4,6-dinitro- | P020 |
| Phenol, 2-cyclohexyl-4,6-dinitro- | P034 |
| Phenol, 2-methyl-4,6-dinitro-, & salts | P047 |
| Phenylmercury acetate | P092 |
| Phenylthiourea | P093 |
| Phorate | P094 |
| Phosgene | P095 |
| Phosphine | P096 |
| Phosphoric acid, diethyl 4-nitrophenyl ester | P041 |
| Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester | P094 |
| Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester | P039 |
| Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2- | P044 |
| oxoethyl] ester | |
| Phosphorofluoridic acid, bis(1-methylethyl) ester | P043 |
| Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester | P071 |
| Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester | P089 |
| Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester | P040 |
| Phosphorothioic acid, O-[4-[(dimethylamino) sulfonyl]phenyl] | P097 |
| O,O-dimethyl ester | |
| Plumbane, tetraethyl- | P110 |
| Potassium cyanide | P098 |
| Potassium cyanide K(CN) | P098 |
| Potassium silver cyanide | P099 |
| 1,2,3-Propanetriol, trinitrate (R) | P081 |
| Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino) | P070 |
| carbonyl]oxime | |
| Propanenitrile | P101 |
| Propanenitrile, 2-hydroxy-2-methyl- | P069 |
| Propanenitrile, 3-chloro- | P027 |

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| 2-Propanone, 1-bromo- | P017 |
|---|------|
| Propargyl alcohol | P102 |
| 2-Propen-1-ol | P005 |
| 2-Propenal | P003 |
| 1,2-Propylenimine | P067 |
| 2-Propyn-1-ol | P102 |
| 4-Pyridinamine | P008 |
| Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts | P075 |
| Selenious acid, dithallium(1+) salt | P114 |
| Selenourea | P103 |
| Silver cyanide | P104 |
| Silver cyanide Ag(CN) | P104 |
| Sodium azide | P105 |
| Sodium cyanide | P106 |
| Sodium cyanide Na(CN) | P106 |
| Strontium sulfide SrS | P107 |
| Strychnidin-10-one, & salts | P108 |
| Strychnidin-10-one, 2.3-dimethoxy- | P018 |
| Strychnine, & salts | P108 |
| Sulfuric acid, dithallium(1+) salt | P115 |
| Tetraethyl lead | P110 |
| Tetraethyl pyrophosphate | P111 |
| Tetraethyldithiopyrophosphate | P109 |
| Tetranitromethane (R) | P112 |
| Tetraphosphoric acid, hexaethyl ester | P062 |
| Thallic oxide | P113 |
| Thallium oxide TI 2 O 3 | P113 |
| Thallium(I) selenite | P114 |
| Thallium(I) sulfate | P115 |
| Thiodiphosphoric acid, tetraethyl ester | P109 |
| Thiofanox | P045 |
| Thioimidodicarbonic diamide [(H 2 N)C(S)]2 NH | P049 |
| Thiophenol | P014 |
| Thiosemicarbazide | P116 |
| Thiourea, (2-chlorophenyl)- | P026 |
| Thiourea, 1-naphthalenyl- | P072 |
| Thiourea, phenyl- | P093 |
| Toxaphene | P123 |
| Trichloromethanethiol | P118 |
| Vanadic acid, ammonium salt | P119 |
| Vanadium oxide V 2 O 5 | P120 |
| Vanadium pentoxide | P120 |
| Vinylamine, N-methyl-N-nitroso- | P084 |
| | |
| Warfarin, & salts, when present at concentrations greater than 0.3% | P001 |
| Zinc cyanide | P121 |
| Zinc cyanide Zn(CN)2 | P121 |

| Zinc phosphide Zn 3 P 2, when present at concentrations greater | P122 |
|---|------|
| than 10% (R,T) | |

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U-Listed Hazardous Waste Constituents— Unused Chemicals

40 CFR 261.33(f)

| Acetaldehyde (I) | U001 |
|---|--|
| Acetaldehyde, trichloro- | U034 |
| Acetamide, N-(4-ethoxyphenyl)- | U187 |
| Acetamide, N-9H-fluoren-2-yl- | U005 |
| Acetic acid ethyl ester (I) | U112 |
| Acetic acid, (2,4-dichlorophenoxy)-, salts & esters | U240 |
| Acetic acid, lead(2 +) salt | U144 |
| Acetic acid, thallium(1 +) salt | U214 |
| Acetone (I) | U002 |
| Acetonitrile (I,T) | U003 |
| Acetophenone | U004 |
| Acetyl chloride (C,R,T) | U006 |
| 2-Acetylaminofluorene | U005 |
| Acrylamide | U007 |
| Acrylic acid (I) | U008 |
| Acrylonitrile | U009 |
| Amitrole | U011 |
| Aniline (I,T) | U012 |
| Arsinic acid, dimethyl- | U136 |
| Auramine | U014 |
| Agogoriano | 1015 |
| Azaserine | 0010 |
| | |
| | |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- | U010 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- | U010 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- | U010 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene | U010 U018 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- | U010 U010 U018 U094 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine | U010 U010 U018 U094 U016 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- | U010 U010 U018 U094 U016 U157 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride | U010 U010 U018 U094 U016 U157 U017 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- | U010 U010 U018 U094 U016 U157 U017 U192 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene Benz[c]acridine Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- | U010 U010 U018 U094 U016 U157 U017 U192 U038 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester | U010 U010 U018 U094 U016 U157 U017 U192 U038 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester Benzenamine (I,T) | U010 U010 U018 U094 U016 U157 U017 U192 U038 U012 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene Benz[c]acridine Benz[c]acridine Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester Benzenamine (I,T) Benzenamine, 2-methyl- | U010 U018 U094 U016 U157 U017 U192 U038 U012 U328 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene Benz[c]acridine Benz[c]acridine Benza[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester Benzenamine (I,T) Benzenamine, 2-methyl- Benzenamine, 2-methyl-, hydrochloride | U010 U010 U018 U094 U016 U157 U017 U192 U038 U012 U328 U222 |
| Azasenne Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester Benzenamine (I,T) Benzenamine, 2-methyl-, hydrochloride Benzenamine, 2-methyl-, hydrochloride Benzenamine, 2-methyl-5-nitro- | U010 U010 U018 U094 U016 U157 U017 U192 U038 U012 U328 U222 U181 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester Benzenamine, 2-methyl- Benzenamine, 2-methyl- Benzenamine, 2-methyl-5-nitro- Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl- | U010 U018 U094 U016 U157 U017 U192 U038 U012 U038 U012 U328 U222 U181 U014 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene Benz[c]acridine Benz[c]acridine Benza[c]aceanthrylene, 1,2-dihydro-3-methyl- Benzal chloride Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester Benzenamine, 2-methyl- Benzenamine, 2-methyl- Benzenamine, 2-methyl-5-nitro- Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl- Benzenamine, 4,4'-methylenebis[2-chloro- | U010 U010 U018 U094 U016 U157 U017 U192 U038 U012 U328 U222 U181 U014 U014 U158 |
| Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[(aminocarbonyl)oxy]methyl]-1,1a,2, 8,8a,8b-hexahydro-8a- methoxy-5-methyl-,[1aS-(1aalpha, 8beta, aalpha, 8balpha)]- Benz[a]anthracene Benz[a]anthracene, 7,12-dimethyl- Benz[c]acridine Benz[c]acridine Benzanide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha- hydroxy, ethyl ester Benzenamine, 2-methyl Benzenamine, 2-methyl Benzenamine, 2-methyl Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl- Benzenamine, 4,4'-methylenebis[2-chloro- Benzenamine, 4-chloro-2-methyl-, hydrochloride | U010 U010 U018 U094 U016 U157 U017 U192 U038 U012 U328 U222 U181 U014 U014 U158 U049 |

| Benzenamine, N.N-dimethyl-4-(phenylazo)- | U093 |
|--|------|
| Benzene (I.T) | U019 |
| Benzene, (1-methylethyl)- (I) | U055 |
| Benzene, (dichloromethyl)- | U017 |
| Benzene, (trichloromethyl)- | U023 |
| Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro- | U061 |
| Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy- | U247 |
| Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro- | U060 |
| Benzene, 1.2,4,5-tetrachloro- | U207 |
| Benzene, 1,2-dichloro- | U070 |
| Benzene, 1,3,5-trinitro- | U234 |
| Benzene, 1,3-dichloro- | U071 |
| Benzene, 1,3-diisocyanatomethyl- (R,T) | U223 |
| Benzene, 1.4-dichloro- | U072 |
| Benzene, 1-bromo-4-phenoxy- | U030 |
| Benzene, 1-methyl-2,4-dinitro- | U105 |
| Benzene, 2-methyl-1,3-dinitro- | U106 |
| Benzene, chloro- | U037 |
| Benzene, dimethyl- (I,T) | U239 |
| Benzene, hexachloro- | U127 |
| Benzene, hexahydro- (I) | U056 |
| Benzene, methyl- | U220 |
| Benzene, nitro- | U169 |
| Benzene, pentachloro- | U183 |
| Benzene, pentachloronitro- | U185 |
| Benzenebutanoic acid, 4-[bis(2-chloroethyl) amino]- | U035 |
| Benzenediamine, ar-methyl- | U221 |
| 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester | U028 |
| 1,2-Benzenedicarboxylic acid, dibutyl ester | U069 |
| 1,2-Benzenedicarboxylic acid, diethyl ester | U088 |
| 1,2-Benzenedicarboxylic acid, dimethyl ester | U102 |
| 1,2-Benzenedicarboxylic acid, dioctyl ester | U107 |
| 1,3-Benzenediol | U201 |
| Benzenesulfonic acid chloride (C,R) | U020 |
| Benzenesulfonyl chloride (C,R) | U020 |
| Benzidine | U021 |
| 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts | U202 |
| Benzo[a]pyrene | U022 |
| Benzo[rst]pentaphene | U064 |
| 1,3-Benzodioxole, 5-(1-propenyl)- | U141 |
| 1,3-Benzodioxole, 5-(2-propenyl)- | U203 |
| 1,3-Benzodioxole, 5-propyl- | U090 |
| | |
| 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenvlbutvl) & | U248 |
| salts, when present at concentrations of 0.3% or less | |
| p-Benzoquinone | U197 |
| Benzotrichloride (C,R,T) | U023 |
| 2,2'-Bioxirane | U085 |
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| [1,1'-Biphenyl]-4,4'-diamine | U021 |
|---|-------|
| [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro- | U073 |
| [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- | U095 |
| [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy- | U091 |
| Bromoform | U225 |
| 4-Bromophenyl phenyl ether | U030 |
| 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | U128 |
| 1-Butanamine, N-butyl-N-nitroso- | U172 |
| 1-Butanol (I) | U031 |
| 2-Butanone (I,T) | U159 |
| 2-Butanone, peroxide (R,T) | U160 |
| 2-Butenal | U053 |
| 2-Butene, 1,4-dichloro- (I,T) | U074 |
| | |
| | |
| 2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)- | U143 |
| 3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin- | |
| 1-yl ester, [1S-[1alpha(Z),7(2S*,3R*), 7aalpha]]- | |
| | |
| n-Butyl alcohol (I) | U031 |
| Cacodylic acid | U136 |
| Calcium chromate | U032 |
| Carbamic acid, methylnitroso-, ethyl ester | U178 |
| Carbamic acid. ethyl ester | U238 |
| Carbamic chloride, dimethyl- | U097 |
| Carbamodithioic acid, 1.2-ethanediyl- bis-, salts and esters | U114 |
| Carbamothioc acid, bis(1-methylethyl)-, S-(2,3-dichloro-2- | U062 |
| propenvl) ester | |
| Carbon oxvfluoride (R.T) | U033 |
| Carbon tetrachloride | U211 |
| Carbonic acid. dithallium(1 +) salt | U215 |
| Carbonic difluoride | U033 |
| Carbonochloridic acid. methyl ester (I.T) | U156 |
| Chlornaphazin | U026 |
| Chloral | U034 |
| Chlorambucil | U035 |
| Chlordane, alpha & gamma isomers | U036 |
| p-Chloro-m-cresol | U039 |
| 4-Chloro-o-toluidine, hydrochloride | U049 |
| Chlorobenzene | U037 |
| Chlorobenzilate | U038 |
| 2-Chloroethyl vinyl ether | U042 |
| Chloroform | U044 |
| Chloromethyl methyl ether | U046 |
| beta-Chloronanbthalene | U047 |
| o-Chlorophenol | 11048 |
| Chromie acid H 2 CrO 4 apleium colt | U032 |
| | 1052 |
| Unrysene | 0050 |

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| Creosote | U05 |
|---|--------|
| Cresol (Cresylic acid) | U05: |
| Crotonaldehyde | U053 |
| Cumene (I) | U05 |
| Cyanogen bromide (CN)Br | U240 |
| 2.5-Cyclohexadiene-1.4-dione | U19′ |
| Cyclohexane (I) | U056 |
| Cyclohexane, 1.2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, | U129 |
| 4alpha, 5alpha, 6beta)- | |
| Cyclohexanone (I) | U057 |
| 1.3-Cyclopentadiene, 1.2.3.4.5.5-hexachloro- | U130 |
| Cyclophosphamide | U058 |
| 2,4-D, salts & esters | U240 |
| DDD | U060 |
| DDT | U06 |
| Daunomycin | U059 |
| Di-n-octyl phthalate | U107 |
| Di-n-propylnitrosamine | U11 |
| Diallate | U062 |
| Dibenz[a,h]anthracene | U063 |
| Dibenzo[a,i]pyrene | U064 |
| 1,2-Dibromo-3-chloropropane | U066 |
| Dibutyl phthalate | U069 |
| 1,4-Dichloro-2-butene (I,T) | U074 |
| o-Dichlorobenzene | U070 |
| m-Dichlorobenzene | U071 |
| p-Dichlorobenzene | U072 |
| 3.3'-Dichlorobenzidine | U073 |
| Dichlorodifluoromethane | U075 |
| Dichloroethyl ether | U025 |
| 1,1-Dichloroethylene | U078 |
| 1,2-Dichloroethylene | U079 |
| Dichloroisopropyl ether | U027 |
| Dichloromethoxy ethane | U024 |
| 2,4-Dichlorophenol | U081 |
| 2,6-Dichlorophenol | U082 |
| 1,3-Dichloropropene | U084 |
| 1,2:3,4-Diepoxybutane (I,T) | U085 |
| O,O-Diethyl S-methyl dithiophosphate | U087 |
| Diethyl phthalate | U088 |
| 1,4-Diethyleneoxide | U108 |
| Diethylhexyl phthalate | U028 |
| N,N'-Diethylhydrazine | U086 |
| Diethylstilbesterol | 1089 |
| Dihydrosafrole | |
| 3.3'-Dimethoxybenzidine | 11091 |
| Dimethyl phthalate | 11100 |
| Dimethyl sulfate | |
| | 1 0103 |

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| Dimethylamine (I) | U092 | · · · · · · · · · · · · · · · · · · · |
|---|-------------|---------------------------------------|
| p-Dimethylaminoazobenzene | U093 | |
| 7.12-Dimethylbenz[a]anthracene | U094 | |
| 3,3'-Dimethylbenzidine | U095 | |
| alpha, alpha-Dimethylbenzylhydroperoxide (R) | U096 | |
| Dimethylcarbamoyl chloride | U097 | |
| 1,1-Dimethylhydrazine | U098 | |
| 1,2-Dimethylhydrazine | U099 | |
| 2,4-Dimethylphenol | U101 | |
| 2.4-Dinitrotoluene | U105 | |
| 2.6-Dinitrotoluene | U106 | |
| 1.4-Dioxane | U108 | |
| 1.2-Diphenvlhydrazine | U109 | |
| Dipropylamine (I) | U110 | |
| Epichlorohydrin | U041 | |
| Ethanal (I) | U001 | |
| Ethanamine N-ethyl-N-nitroso- | U174 | |
| Ethana 1.1'-(methylenebis(oxy))bis(2-chloro- | U024 | |
| Ethane, 1,1'-(methylenebis(oxy))bis(2 emore | U117 | |
| Ethane, 1,1'-oxydis"(i) | U025 | |
| Ethane, 1,1-0xybis[2-chioro- | 11208 | • |
| Ethane, 1,1,1,2-tetrachioro- | 11226 | |
| Ethane, 1,1,1-trichloro- | 11209 | |
| Ethane, 1,1,2,2-tetrachioro- | 11207 | - |
| Ethane, 1,1,2-trichloro- | <u>U227</u> | 1 4. - |
| Ethane, 1,1-dicholro- | 0076 | |
| Ethane, 1,2-dibromo- | 0067 | 4 |
| Ethane, 1,2-dichloro- | | |
| Ethane, hexachloro- | 0131 | 4 |
| Ethane, pentachloro- | 0184 | 4 |
| 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2- | U155 | |
| thienylmethyl)- | | 4 |
| Ethanethioamide | U218 | |
| Ethanol, 2,2'-(nitrosoimino)bis- | <u>U173</u> | |
| Ethanol, 2-ethoxy- | U359 | |
| Ethanone, 1-phenyl- | U004 | - |
| Ethene, (2-chloroethoxy)- | U042 | 4 |
| Ethene, 1,1-dichloro- | U078 | |
| Ethene, 1,2-dichloro-, (E)- | U079 | |
| Ethene, chloro- | U043 | |
| Ethene tetrachloro- | U210 | |
| Ethene trichloro- | U228 | |
| Ethyl acetate (I) | U112 | |
| Ethyl condite (I) | U113 | 1 |
| Ethyl corbomate (urethane) | 11238 | 1 |
| Ethyl cal Dallate (ulculate) | 11117 | 4 |
| | | 4 |
| Ethyl methacrylate | | - |
| Ethyl methanesulfonate | | |
| Ethylene dibromide | | 1 |

| Ethylene dichloride | U077 |
|--|------|
| Ethylene glycol monoethyl ether | U359 |
| Ethylene oxide (I,T) | U115 |
| Ethylenebisdithiocarbamic acid, salts & esters | U114 |
| Ethylenethiourea | U116 |
| Ethylidene dichloride | U076 |
| Fluoranthene | U120 |
| Formaldehyde | U122 |
| Formic acid (C,T) | U123 |
| Furan (I) | U124 |
| Furan, tetrahydro- (I) | U213 |
| 2-Furancarboxaldehyde (I) | U125 |
| 2,5-Furandione | U147 |
| Furfural (I) | U125 |
| Furfuran (I) | U124 |
| Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D- | U206 |
| D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)-carbonyl]amino]- | U206 |
| Glycidylaldehyde | U126 |
| Guanidine, N-methyl-N'-nitro-N-nitroso- | U163 |
| Hexachlorobenzene | U127 |
| Hexachlorobutadiene | U128 |
| Hexachlorocyclopentadiene | U130 |
| Hexachloroethane | U131 |
| Hexachlorophene | U132 |
| Hexachloropropene | U243 |
| Hydrazine (R,T) | U133 |
| Hydrazine, 1,1-dimethyl- | U098 |
| Hydrazine, 1,2-diethyl- | U086 |
| Hydrazine, 1,2-dimethyl- | U099 |
| Hydrazine, 1,2-diphenyl- | U109 |
| Hydrofluoric acid (C,T) | U134 |
| Hydrogen fluoride (C,T) | U134 |
| Hydrogen sulfide | U135 |
| Hydrogen sulfide H 2 S | U135 |
| Hydroperoxide, 1-methyl-1-phenylethyl- (R) | U096 |
| 2-Imidazolidinethione | U116 |
| Indeno[1,2,3-cd]pyrene | U137 |
| 1,3-Isobenzofurandione | U190 |
| Isobutyl alcohol (I,T) | U140 |
| Isosafrole | U141 |
| Kepone | U142 |
| Lasiocarpine | U143 |
| Lead acetate | U144 |
| Lead phosphate | U145 |
| Lead subacetate | U146 |
| Lead, bis(acetato-O)tetrahydroxytri- | U146 |
| | |
| Lindane | U129 |

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States.

| Maleic anhydride | U147 | 1.14 |
|--|--|------|
| Maleic hydrazide | U148 | |
| Malononitrile | U149 | |
| Melphalan | U150 | |
| Mercury | U151 | |
| Methacrylonitrile (I.T) | U152 | |
| Methanamine, N-methyl- (I) | U092 | |
| Methane, bromo- | U029 | |
| Methane, chloro- (I,T) | U045 | |
| Methane, chloromethoxy- | U046 | |
| Methane, dibromo- | U068 | |
| Methane, dichloro- | U080 | |
| Methane, dichlorodifluoro- | U075 | |
| Methane, iodo- | U138 | |
| Methane, tetrachloro- | U211 | |
| Methane, tribromo- | U225 | |
| Methane, trichloro- | U044 | |
| Methane, trichlorofluoro- | U121 | |
| Methanesulfonic acid, ethyl ester | U119 | |
| Methanethiol (I,T) | U153 | |
| 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro- | U036 | |
| 2,3,3a,4,7,7a-hexahydro- | | |
| Methanol (I) | U154 | |
| Mathanyrilene | 11155 | |
| | 0100 | |
| | 0100 | |
| 1.3.4-Metheno-2H-cyclobuta[cd]pentalen-2-one, | U142 | |
| 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- | U142 | |
| 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor | U142 U247 | |
| 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) | U142 U247 U154 | |
| 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide | U142 U247 U154 U029 | |
| Methapymene 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) | U142 U247 U154 U029 U045 | |
| Methapymene 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) | U142 U247 U154 U029 U045 U156 | |
| Methapymene 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl chloroform | U142 U247 U154 U029 U045 U156 U226 | |
| Methapymene 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl chloroform Methyl ethyl ketone (MEK) (I,T) | U142 U247 U154 U029 U045 U156 U226 U159 | |
| Methapymene 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl chloroform Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) | U142 U247 U154 U029 U045 U156 U226 U159 U160 | |
| Methapyriche 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl chloroform Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl iodide | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 | |
| Methapyriche 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl chloroform Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl iodide Methyl isobutyl ketone (I) | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 | |
| Methapyriche 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl chloroform Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl isobutyl ketone (I) | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 | |
| Methapyriche 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl chloroform Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl methacrylate (I,T) | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 | |
| Methapyriene 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl methacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylbutadiene (I) | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U161 U186 | |
| Internapyriteric 1.3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1.1a,3.3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl isobutyl ketone (I) 1-Methyl-2-pentanone (I) 1-Methylbutadiene (I) 3-Methylcholanthrene | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U186 U157 | |
| Methapyniche 1.3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1.1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl isobutyl ketone (I) Methyl methacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylbutadiene (I) 3-Methylcholanthrene Methylene bromide | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U186 U157 U068 | |
| I.3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1.1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl iodide Methyl isobutyl ketone (I) Methyl nethacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylbutadiene (I) 3-Methylcholanthrene Methylene bromide | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U162 U161 U162 U161 U162 U161 U157 U068 U080 | |
| I.3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1.1a.3.3a,4.5.5.5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I.T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I.T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl isobutyl ketone (I) Methyl nethacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylbutadiene (I) 3-Methylcholanthrene Methylene bromide Methylene bromide | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U162 U161 U162 U161 U157 U068 U080 U158 | |
| 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl isobutyl ketone (I) Methyl methacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylcholanthrene Methylene bromide Methylene bromide | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U162 U161 U162 U157 U068 U080 U158 U158 U164 | |
| 1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl iodide Methyl isobutyl ketone (I) Methyl methacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylbutadiene (I) 3-Methylcholanthrene Methylene bromide Methylene bromide Methylene chloride 4.4'-Methylenebis(2-chloroaniline) Methylthiouracil | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U162 U161 U162 U157 U068 U157 U068 U158 U164 U158 U164 U100 | |
| 1.3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1.1a,3.3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I,T) Methyl chlorocarbonate (I,T) Methyl ethyl ketone (MEK) (I,T) Methyl ethyl ketone peroxide (R,T) Methyl isobutyl ketone (I) Methyl nethacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylcholanthrene Methylene bromide Methylene chloride 4.4'-Methylenebis(2-chloroaniline) Methylthiouracil Mitomycin C | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U162 U161 U162 U161 U157 U068 U080 U158 U164 U164 U010 | |
| 1.3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1.1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- Methoxychlor Methyl alcohol (I) Methyl bromide Methyl chloride (I.T) Methyl chlorocarbonate (I,T) Methyl chloroform Methyl ethyl ketone (MEK) (I.T) Methyl ethyl ketone peroxide (R.T) Methyl isobutyl ketone (I) Methyl nethacrylate (I,T) 4-Methyl-2-pentanone (I) 1-Methylbutadiene (I) 3-Methylcholanthrene Methylene bromide Methylene chloride Methylene bromide Methylene chloride Methylene chloride Methylene chloride Methylthiouracil | U142 U247 U154 U029 U045 U156 U226 U159 U160 U138 U161 U162 U161 U162 U161 U162 U161 U162 U157 U068 U080 U158 U164 U010 | |

| 5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)- | U059 |
|--|----------|
| alpha-L-lyxo-hexopyranosyl) oxy]-7,8,9,10-tetrahydro-6,8,11- | |
| trihydroxy-1-methoxy-, (8S-cis)- | |
| 1-Naphthalenamine | U167 |
| 2-Naphthalenamine | U168 |
| Naphthalenamine, N.N'-bis(2-chloroethyl)- | U026 |
| Naphthalene | U165 |
| Naphthalene, 2-chloro- | U047 |
| 1,4-Naphthalenedione | U166 |
| | |
| 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl[1,1'- | U236 |
| biphenyl]-4,4'-diyl)bis(azo)bis[5-amino-4-hydroxy]-, tetrasodium | |
| salt | |
| 1,4-Naphthoquinone | U166 |
| alpha-Naphthylamine | U167 |
| beta-Naphthylamine | U168 |
| Nitric acid, thallium(1 +) salt | U217 |
| 5-Nitro-o-toluidine | U181 |
| Nitrobenzene (I,T) | U169 |
| p-Nitrophenol | U170 |
| 2-Nitropropane (I,T) | U171 |
| N-Nitroso-N-ethylurea | U176 |
| N-Nitroso-N-methylurea | U177 |
| N-Nitroso-N-methylurethane | U178 |
| N-Nitrosodi-n-butylamine | U172 |
| N-Nitrosodiethanolamine | U173 |
| N-Nitrosodiethylamine | U174 |
| N-Nitrosopiperidine | U179 |
| N-Nitrosopyrrolidine | U180 |
| 1.2-Oxathiolane, 2.2-dioxide | U193 |
| 2H-1.3.2-Oxazaphosphorin-2-amine. N.N-bis(2- | U058 |
| chloroethyl)tetrahydro-, 2-oxide | |
| Oxirane (I.T) | U115 |
| Oxirane. (chloromethyl)- | U041 |
| Oxiranecarboxvaldehvde | U126 |
| Paraldehyde | U182 |
| Pentachlorobenzene | U183 |
| Pentachloroethane | U184 |
| Pentachloronitrobenzene (PCNB) | U185 |
| 1.3-Pentadiene (I) | U186 |
| Pentanol, 4-methyl- | U161 |
| Phenacetin | U187 |
| Phenol | U188 |
| Phenol 2 2'-methylenehisl3 4 6-trichloro- | U132 |
| Phenol 2 4-dichloro- | 11081 |
| Dhanol 2 1 dimethyl | <u> </u> |
| Dhenol 2.6 dichloro | 1082 |
| Phonol 9 chloro | |
| Flichol, 2-Chloro- Dhemel, 4,4: (1,0, distant), 1,0, stheme distant, (D) | |
| rnenoi, 4,4 -(1,2-aletnyi-1,2-etnenealyijbis-, (E)- | 0009 |

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| Phenol, 4-chloro-3-methyl- | U039 |
|---|------|
| Phenol, 4-nitro- | U170 |
| Phenol, methyl- | U052 |
| L-Phenylalanine, 4-[bis(2-chloroethyl)amino]- | U150 |
| Phosphoric acid, lead(2 +) salt (2:3) | U145 |
| Phosphorodithioic acid, O.O-diethyl S-methyl ester | U087 |
| Phosphorus sulfide (R) | U189 |
| Phthalic anhydride | U190 |
| 2-Picoline | U191 |
| Piperidine, 1-nitroso- | U179 |
| Pronamide | U192 |
| 1-Propanamine (I,T) | U194 |
| 1-Propanamine, N-nitroso-N-propyl- | U111 |
| 1-Propanamine, N-propyl- (I) | U110 |
| 1,3-Propane sultone | U193 |
| Propane, 1,2-dibromo-3-chloro- | U066 |
| Propane, 1,2-dichloro- | U083 |
| Propane, 2,2'-oxybis[2-chloro- | U027 |
| Propane, 2-nitro- (I,T) | U171 |
| Propanedinitrile | U149 |
| 1-Propanol, 2,3-dibromo-, phosphate (3:1) | U235 |
| 1-Propanol, 2-methyl- (I,T) | U140 |
| 2-Propanone (I) | U002 |
| 2-Propenamide | U007 |
| 1-Propene, 1,1,2,3,3,3-hexachloro- | U243 |
| 1-Propene, 1,3-dichloro- | U084 |
| 2-Propenenitrile | U009 |
| 2-Propenenitrile, 2-methyl- (I,T) | U152 |
| 2-Propenoic acid (I) | U008 |
| 2-Propenoic acid, 2-methyl-, ethyl ester | U118 |
| 2-Propenoic acid, 2-methyl-, methyl ester (I,T) | U162 |
| 2-Propenoic acid, ethyl ester (I) | U113 |
| n-Propylamine (I,T) | U194 |
| Propylene dichloride | U083 |
| 3,6-Pyridazinedione, 1,2-dihydro- | U148 |
| Pyridine | U196 |
| Pyridine, 2-methyl- | U191 |
| 2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]- | U237 |
| 4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo- | U164 |
| Pyrrolidine, 1-nitroso- | U180 |
| Reserpine | U200 |
| Resorcinol | U201 |
| Saccharin, & salts | U202 |
| Safrole | U203 |
| Selenious acid | U204 |
| Selenium dioxide | U204 |
| Selenium sulfide | U205 |
| Selenium sulfide SeS 2 (R,T) | U205 |

| L-Serine, diazoacetate (ester) | U015 |
|---|------|
| Streptozotocin | U206 |
| Sulfur phosphide (R) | U189 |
| Sulfuric acid, dimethyl ester | U103 |
| 1.2.4.5-Tetrachlorobenzene | U207 |
| 1.1.1.2-Tetrachloroethane | U208 |
| 1,1,2,2-Tetrachloroethane | U209 |
| Tetrachloroethylene | U210 |
| Tetrahydrofuran (I) | U213 |
| Thallium chloride TICl | U216 |
| Thallium (I) acetate | U214 |
| Thallium (I) carbonate | U215 |
| Thallium (I) chloride | U216 |
| Thallium (I) nitrate | U217 |
| Thioacetamide | U218 |
| Thiomethanol (I,T) | U153 |
| Thioperoxydicarbonic diamide [(H 2 N)C(S)]2 S 2 , tetramethyl- | U244 |
| Thiourea | U219 |
| Thiram | U244 |
| Toluene | U220 |
| Toluene diisocyanate (R,T) | U223 |
| Toluenediamine | U221 |
| o-Toluidine | U328 |
| p-Toluidine | U353 |
| o-Toluidine hydrochloride | U222 |
| 1H,1,2,4-Triazol-3-amine | U011 |
| 1,1,2-Trichloroethane | U227 |
| Trichloroethylene | U228 |
| Trichloromonofluoromethane | U121 |
| 1,3,5-Trinitrobenzene (R,T) | U234 |
| 1,3,5-Trioxane, 2,4,6-trimethyl- | U182 |
| Tris(2,3-dibromopropyl) phosphate | U235 |
| Trypan blue | U236 |
| Uracil mustard | U237 |
| Urea, N-ethyl-N-nitroso- | U176 |
| Urea, N-methyl-N-nitroso- | U177 |
| Vinyl chloride | U043 |
| Warfarin, & salts, when present at concentrations of 0.3% or less | U248 |
| Xylene (I) | U239 |
| | |
| Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5- | U200 |
| trimethoxybenzoyl)oxy]-, methyl ester, (3beta, 16beta, 17alpha, | |
| 18beta, 20alpha)- | |
| Zinc phosphide Zn 3 P 2 , when present at concentrations of 10% | U249 |
| or less _o | |

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| EPA Waste Code | Chemical Name | CAS# | Limit(ppm) |
|----------------|------------------------------|-----------|------------|
| D004 | Arsenic. | 7440-38-2 | 5.0 |
| D005 | Barium. | 7440-39-3 | 100.0 |
| D018 | Benzene | 71-43-2 | 0.5 |
| D006 | Cadmium | 7440-43-9 | 1.0 |
| D019 | Carbon tetrachloride | 56-23-5 | 0.5 |
| D020 | Chlordane | 57-74-9 | 0.03 |
| D021 | Chlorobenzene | 108-90-7 | 100.0 |
| D022 | Chloroform | 67-66-3 | 6.0 |
| D007 | Chromium | 7440-47-3 | 5.0 |
| D023 | o-Cresol | 95-48-7 | {4} 200.0 |
| D024 | m-Cresol | 108-39-4 | {4} 200.0 |
| D025 | p-Cresol | 106-44-5 | {4} 200.0 |
| D026 | Cresol | | {4} 200.0 |
| D016 | 2,4-D | 94-75-7 | 10.0 |
| D027 | 1,4-Dichlorobenzene. | 106-46-7 | 7.5 |
| D028 | 1,2-Dichloroethane. | 107-06-2 | 0.5 |
| D029 | 1,1-Dichloroethylene | 75-35-4 | 0.7 |
| D030 | 2,4-Dinitrotoluene | 121-14-2 | {3} 0.13 |
| D012 | Endrin | 72-20-8 | 0.02 |
| D031 | Heptachlor (and its epoxide) | 76-44-8 | 0.008 |
| D032 | Hexachlorobenzene | 118-74-1 | {3} 0.13 |
| D033 | Hexachlorobutadiene | 87-68-3 | 0.5 |
| D034 | Hexachloroethane | 67-72-1 | 3.0 |
| D008 | Lead | 7439-92-1 | 5.0 |
| D013 | Lindane | 58-89-9 | 0.4 |
| D009 | Mercury | 7439-97-6 | 0.2 |
| D014 | Methoxychlor | 72-43-5 | 10.0 |
| D035 | Methyl ethyl ketone | 78-93-3 | 200.0 |
| D036 | Nitrobenzene | 98-95-3 | 2.0 |
| D037 | Pentrachlorophenol | 87-86-5 | 100.0 |
| D038 | Pyridine | 110-86-1 | {3} 5.0 |
| D010 | Selenium | 7782-49-2 | 1.0 |
| D011 | Silver | 7440-22-4 | 5.0 |
| D039 | Tetrachloroethylene | 127-18-4 | 0.7 |
| D015 | Toxaphene | 8001-35-2 | 0.5 |
| D040 | Trichloroethylene | 79-01-6 | 0.5 |
| D041 | 2,4,5-Trichlorophenol | 95-95-4 | 400.0 |
| D042 | 2,4,6-Trichlorophenol | 88-06-2 | 2.0 |
| D017 | 2,4,5-TP (Silvex) | 93-72-1 | 1.0 |
| D043 | Vinyl chloride | 75-01-4 | 0.2 |

WASTE CONTAMINANTS LISTED FOR TOXICITY

{1} Hazardous waste number.

{2} Chemical abstracts service number.

(3) Quantitation limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.

{4} If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

Hazardous wastes from non-specific sources.

New York

1. ³⁷ . Wales (a) The following solid wastes are listed hazardous wastes from non-specific sources unless they are excluded under §§ 40 CFR 260.20 and 260.22.

| EPA Code | | Haz. |
|-------------|--|-------|
| EOOI | The following spent helegeneted solvents used in degreesing. | |
| | Tetrachloroethylene, richloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. | |
| F002 | The following spent halogenated solvents: | (T) |
| | Tetrachloroethylene, methylene chloride, trichloroethylene, 1.1,1-trichloroethane, chlorobenzene, 1.1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. | |
| F003 | The following spent non-halogentated solvents: | (I)* |
| | Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. | |
| F004 | The following spent non-halogenated solvents: | (T) |
| | Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. | |
| F005 | The following spent non-halogenated solvents: | (I,T) |
| | Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2- nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures. | |

National Laboratory

Attachment 3 WASTE PROFILE FORM

National Laboratory

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States .

Nº 1410

Attachment 3 WASTE PROFILE FORM

| | | 5 | Sectior | 1 2 - Chai | racteristics | | | |
|---|---|--|-----------|---|---|--|--|---|
| Ignitability (Check only one.) | Corrosi | ivity (Chec | k only on | only one.) Reactivity (Check as many as apply.) | | Boiling Point | (Check only one.) | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | $\begin{vmatrix} \Box \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $ | 0 1 - 4.0 1 - 6.0 1 - 9.0 1 - 12.4 5 id corrosiv -aqueous | e to stee | | RCRA UnstableWater ReactiveCyanide Bearing (> 25Sulfide Bearing (> 500PyrophoricShock SensitiveExplosive - DOT Div.Non-reactive | 50 ppm)) ppm) | $ \leq 95 > 95 Not applica$ | (°C) ≤ 35 > 35 |
| | Charac | terization 1 | Method | | Concentra | ation of Cont | aminants | ······································ |
| | | TCLP | Tatal | None or | Present Below | | Above Regulat | ory Limit |
| Identify for all contaminants listed. | | ICLP | lotal | Non-detect | Regulatory Limit | | Minimum | Maximum |
| Arsenic Barium Cadmium Chromium (Total) Lead Mercury Selenium Silver | | | | | < | m m m m m m | to | ppm only.) ppm ppm ppm ppm ppm ppm ppm ppm ppm |
| Toxicity Characteristic OrganicsBenzeneCarbon tetrachlorideChlorodaneChlorobenzeneChloroformo - cresolm - cresolp - cresolCresol - mixed2.4-D1.4-Dichlorobenzene1.2-Dichloroethane1.1-Dichloroethylene2.4-DinitrotolueneEndrinHeptachlor (& its epoxide)HexchlorobenzeneHexchlorobutadieneHexchloroethaneLindaneMethoxychlorMethyl ethyl ketoneNitrobenzenePentachlorophenolPyridineTetrachloroethylene | | | | | $\begin{vmatrix} < 0.5 & pp \\ < 0.03 & pp \\ < 100.0 & pp \\ < 200.0 & pp \\ < 0.10 & pp \\ < 0.13 & pp \\ < 0.1$ | mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm | to to | ppm ppm |
| Toxaphene Trichloroethylene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4,5-TP (Silvex) Vinyl chloride | | | | | □ < | m m m m m | to | ppm ppm ppm ppm ppm |

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Attachment 3 WASTE PROFILE FORM

Section 3 - Additional Constituents

| Additional Constituents and Contaminates. constituents (including inerts) not identified above and i Numbers are needed for all chemical constituents, for | Please account for 100% of waste. Ranges should be given within guidelines of LIG 40 attach any applicable analysis. No chemical formulas allowed in this field. Continue in S material without a CAS Number enter "No CAS Number." Contact Waste Services at | 04-00-03 of individual c Section 3 Additional Info 5-4000 for assistance. | onstituents. List all other ormation as necessary. CAS |
|--|---|---|---|
| CAS No. | Name of constituent | Minimum | Maximum |
| | | | to % |
| | Total of max. ranges of this section Total of max. ranges from page 2. | | in <i>%</i> in ppm |

Additional Information (Use additional sheet if necessary.)

If additional information is available on the chemical, physical, or radiological character of the waste not covered on this form, provide it below:

WASTE GENERATOR CERTIFICATION: Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

 Signature
 Date

 WASTE MANAGEMENT COORDINATOR: I have reviewed this form and to the best of my knowledge, the information is complete and accurate.

 Signature
 Date

Form 1346 (6/97) Rev. 1.0 (MSW)

National Laboratory

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Attachment 3 WASTE PROFILE FORM

| Attachment 1 - Wastewater Characteristics for SWSC (TA-46) For help in completing this section, call ESH -18 at 7-4882. Identify presence of any constituents listed below. Use of Acceptable Knowledge in lieu of analytical data must be pre-approved by ESH-18. | | | | | | |
|---|----------------|--|---|---|--|--------------|
| Microtox Analysis #: | 11 | NOTE: Microtox and | nalysis must be pe | rformed. Conta | ct JCI/ENV to schedu | le analysis. |
| Are there any detectable levels o | f gross Alpha, | gross Beta, gross C | Gamma, and/or Tri | tium? - | 🗌 No | 🗌 Yes |
| All methods of analysis must conform to those approved pursuant to 40 CFR 136 unless an alternative method has been approved by ESH-18. All metal concentrations are for the dissolved fraction present in the sample unless otherwise indicated. | | | | | | |
| | Flow Rate | of 100 gallons/day of 100 gallons/day of | or less | Flow Rate | of greater than 100 gall | ons/day |
| Flow Rate Parameters | Non-detect | Regulatory Limits | Limit | Non-detect | Regulatory Limits | Limit |
| pH Chemical Oxygen Demand (COD) Microtox results (a) (b) Temperature Cyanide (Total) Fluoride Iron Magnesium Manganese Metals (Total) Nickel Nitrogen (Total) Oil and Greases Phosphorus (Total) Silver Total Suspended Solids (TSS) Zinc | | $ \begin{vmatrix} 5 & -11 & SU \\ \leq 750 & mg/ \\ < 55\% & screer \\ > 20\% & EC50 \\ \leq 180 ^{\circ}F \\ < 5.0 & mg/ \\ < 200.0 & mg/ \\ < 100.0 & mg/ \\ < 100.0 & mg/ \\ < 5.0 & mg/ \\ < 50.0 & mg/ \\ < 50.0 & mg/ \\ < 100.0 & mg/ \\ < 50.0 & mg/ \\ < 50.0 & mg/ \\ < 40.0 & mg/ \\ < 50.0 & mg/ \\ < 250.0 & mg/ \\ < 250.0 & mg/ \\ < 100.0 & mg/ \\ < 250.0 & mg/ \\ < 50.0 & mg/ \\ < 100.0 &$ | | | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | |
| Wastewater contaminants Identify for all constituents listed | Nor | e/Non-detect | Present within Re | gulatory Limits | Above Li | mit |
| Dissolved Aluminum Dissolved Arsenic Barium Beryllium Dissolved Boron Dissolved Cadmium Chlorine (Total Residual) Dissolved Chromium Dissolved Cobalt Dissolved Cobalt Dissolved Copper Dissolved Lead Total Mercury Molybdenum Polychlorinated Biphenyls (PCB) Dissolved Selenium Dissolved Vanadium Dissolved Zinc | | | $\begin{vmatrix} & < & 5.0 \\ & < & 0.2 \\ & < & 100.0 \\ & & < & 5.3 \\ & & & < & 5.0 \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & \\ & & $ |) mg/l 2 mg/l 2 mg/l 3 mg/l 3 mg/l 0 mg/l | | |

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Attachment 3 WASTE PROFILE FORM

| Attachment 2 - Wastewater Characteristics for RLWTF (TA-50 & TA-21) | | | | | | | |
|---|---|---|-------------------------------------|---|--|--|--|
| For help in completing this section, can 7-4501. | | | | | | | |
| Indicate if waste was: Accelerator produced Reactor produced Other (Describe in WPF Section 1 "Waste/Process Description.") | | | | | | | |
| Radionucide C | Present At Or | 1 | 1 | Present At Or | T | | |
| Identify for the following: | Below LOC (in Ci/l) | Range if above LOC in Ci/l Min. / Max. | Identify for the following: | Below LOC (in Ci/l) | Range if above LOC in Ci/l Min. / Max. | | |
| As-74 | $\leq 4.0 \text{ E} - 8$ | // | Rb-84 | Solution State Solution 1.0 E - 8 | / | | |
| Be-7 | $\Box \leq 1.0 \text{ E} -6$ | / | Sc-46 | ☐ ≤ 2.0 E -8 | / | | |
| Ce-141 | ⊆ 5.0 E -8 | / | Sc-48 | $\Box \le 2.0 \text{ E} - 8$ | / | | |
| Cs-134 | □ ≤ 2.0 E -9 | / | Se-75 | ☐ ≤ 2.0 E -8 | / | | |
| Cs-137 | $\bigsqcup \leq 3.0 \text{ E} - 9$ | / | Na-22 | $\Box \leq 1.0 \text{ E} - 8$ | / | | |
| Co-56 | $\Box \leq 1.0 E - 8$ | / | Sr-85 | $\bigcup_{n \to \infty} \leq 7.0 \text{ E} - 8$ | / | | |
| Co-57 | ∐ ≤ 1.0 E -7 | / | Sr-89 | $\bigsqcup_{i=1}^{i} \leq 2.0 \text{ E} - 8$ | / | | |
| Co-58 | $\Box \leq 4.0 E - 8$ | / | - Sr-90 | $\Box \leq 1.0 \text{ E} -9$ | / | | |
| En 152 | $\Box \leq 5.0 E - 9$ | / | - Sn-115 | $\Box \leq 5.0 E - 8$ | / | | |
| Eu-152 | $\Box \leq 2.0 E^{-8}$ | ······································ | - V-40 V 00 | $\Box \leq 2.0 E - 8$ | / | | |
| 1.133 | $\square \geq 2.0 \square \cdot 8$ | | 7n-65 | $\Box \geq 3.0 E^{-8}$ | / | | |
| Mn_52 | $\Box \geq 1.0 E - 8$ | · · · · · · · · · · · · · · · · · · · | - Am-241 | $\Box \geq 9.0 E - 9$ | ······································ | | |
| Mn-54 | | / | - Pu-238 | $\Box \geq 0.1 E = 0$ | ······································ | | |
| $R_{a-226} + 228$ | $\Box \leq 3.0E - 0$ | ······································ | Pu-239 | $\Box = 0.1E = 0$ | ', | | |
| Rb-83 | $\Box = 30.0 E^{-11}$ | / | 11-234 | $\Box \leq 50F-8$ | / | | |
| Others: | | / | Others: | | | | |
| | | / | _ | | / | | |
| | | / | | | / | | |
| | | / | | | | | |
| Other Contami | nants | | | | The second s | | |
| Metal Contaminants | Present Below LOC | Range if above LOC (in ppm) | Additional Contamina | nte | Min / Max | | |
| Aluminum | $\Box < 50$ | to ppm | Chemical Oxygen D | emand (COD) | to mg/l | | |
| Boron | $\square \leq 5.0$ | to ppm | Total Suspended So | lids (TSS) | to mg/l | | |
| Cobalt | $\square \leq 1.0$ | to ppm | | (, , | | | |
| Copper | $\Box \leq 1.0$ | to ppm | Total Nitrogen | or (only one | tomg/l | | |
| Vanadium | $\Box \le 0.10$ | to ppm | Total Nitrates | entry needed) | to mg/l | | |
| Zinc | □ ≤ 95.40 | to ppm | | - | | | |
| Radioactive Contar | ninant Totals: | | For TA-55 use only. | | | | |
| Т | otal Alpha | Ci/l | Wastewater will be | discharged through or | ne of the following: | | |
| 1 | otal Beta | Ci/l | | | | | |
| 1 | otat Gamma | Ci/i | | | | | |
| ☐ Yes Scintill □ No | lation Cocktail | Brand Name | | Volume | Unit | | |
| ☐ Yes Chemie | cal Treatment for Boile | ers / Water Chillers | dilai da dénetti - 1 - 1909 - 900 y | | | | |
| ☐ Yes Industr | rial Cleaner | Гуре | | Volume | Unit | | |
| Averag | ge daily volume when | discharge occurs: | ····· | | Gallons/day | | |
| Махіп | num daily volume who | en discharge occurs: | | | Callons/day | | |
| Estima | ited number of days p | er year discharge will occur: | | | Liters/day | | |
| | | | | | | | |
| Estima Liquid | ted total volume per y Waste Collection Syst | ear discharged to the Radioactive m at TA-50 / TA-21: | | | Gallons | | |

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Attachment 4

DX DIVISION WASTE MANAGEMENT COORDINATORS (WMCs)

| NAME: | PHONE | PAGER | E-MAIL | ASSIGNED TECH AREAS: |
|----------------|--------|--------------|---------|-------------------------|
| Michelle Cash | 5-0223 | 104-4012 (V) | cash@ | 3, 8, 35, 39 and 69 |
| Gordon Jio | 7-4325 | 104-8478 | jio@ | 9, 14, and 16 |
| Joe Richardson | 5-4844 | 104-2974 | avgjoe@ | 15, 22, 36, and 40 |

N. Sec.

Attachment 5 SATELLITE ACCUMULATION AREAS (SAAs)

LABEL ALL CONTAINERS...... Call, we'll get you labels.

KEEP CONTAINERS SECURELY CLOSED WHEN NOT IN USE.

LABEL CONTENTS (what is it?)

- 1 May be labeled on outside of primary container, or, if more than one kind of waste, label each secondary container inside of main container
- 2 Write the words "HAZARDOUS WASTE" on each secondary container or call us for pre-printed tape.





DO I NEED A WASTE PROFILE FORM? HOW DO I FILL ONE OUT?...Call us.

KEEP A LOG OF YOUR WASTE....Call, we have log sheets.

KNOW WHO YOUR SAA CONTACT IS ... Who is responsible for your SAA?

NOT SURE WHAT IT IS? WHERE IT CAME FROM???... Call, we'll help.

HOW DO I GET RID OF THIS STUFF??.....Call us.

THE CONTAINER IS GETTING FULL.Call us.

IS THIS STUFF I HAVE EVEN HAZARDOUS??..We can give you guidance.

WE DO: ASBESTOS, PCBs, RADIOACTIVE, MIXED RADIOACTIVE, CHEMICAL, CARCINOGENIC AND OTHER HAZARDOUS AND NON-HAZARDOUS WASTE.

QUESTIONS? NOT SURE? NEED HELP?



Attachment 6

New York

LOG of WASTE

| This Waste Generated at TA: | | | BLDG: | ROOM:_ | | |
|-----------------------------|------|------------|-------------|--------|--|----------------------------|
| DATE | NAME | DESCRIPTIO | DN OF WASTE | | VOL. OF WASTE (in gal.) | TOTAL VOL. (in gal.) |
| | | | | | | = |
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| | | | | + | | = |
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Attachment 7

Persons authorized to use this Satellite Accumulation Area (SAA):

See Area Contact for authorization

| Name | Group | Phone Number |
|--|---------------------------------------|--------------|
| | | |
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| | | |

The above persons agree to adhere to all Federal, State, LANL and DX-Division regulations regarding the proper handling and storage of waste.

| HAZARDOUS A | Attac ND MIXED WASTE FA | chment 8 A CIL I | TV IN | SPEC | ΓΙΟΝ | PECC | DD F | Ω |
|--|---------------------------------------|---------------------|----------|-------------|-------------|------------|------------------|--------|
| FACILITY: | | | | | | | ⁵ ENC | |
| 201. 10. 11 | TREATMENT STORAGE OR DISE | DA | TE: | | . 0.11 | | | |
| ⁶ Contained | | | | | | | | |
| Containers | | | | Thermal ' | Treatmen | nt | | |
| Physical Treatment | Biological Treat | Treatme | ent | | | | | |
| 🖵 Tank | ust 🗆 | | | Miscellar | neous Ur | it (OB/O | D, Cemer | ntatio |
| PART I- Enter condition of | of the item inspected (OK, NA [Not Ap | plicable], | or AR [A | ction Requ | ired]) in a | column for | · day inspe | cted. |
| ITEM | INSPECTED FOR: | MON | TUE | WED | THU | FRI | SAT | SU |
| 'NO USE | No waste opened, moved, | | | | | | | |
| | received, treated, or | | . | | | | | |
| | removed; or no waste | | | | | | | |
| 10010100000000000000000000000000000000 | stored | | | | | | | |
| ° COMMUNICATION | S Availability and proper | | | | | | | |
| EQUIPMENT | operating condition | | | | | | | |
| ² WARNING SIGNS | Posted, legible, and | | | | | | | |
| | bilingual | | | | | | | |
| ¹⁰ SECURITY | Condition of fences, gates, | | | | | | | |
| | locks, and other access | | | | | ł | | |
| UWODK SUDEA CES | control equipment | | | | | | - | |
| WUKK SUKFACES | Any conditions that could | | | | | | | |
| | lead to an accident or spill | | | | | ļ | | |
| SPILL/FIKE | Present, appropriate, and in | j | | - - - | | | | |
| BEVEWASHES/ | proper operating condition | | | | | ļ | | |
| CIEWASHES/ | Proper operating condition | | | | | | | |
| 14 WIND SOCK | Proper operating and dition | | | | | | | |
| WIND SOCK | and checked for domage | | | | | | | |
| 15 SECONDARY | Standing water/waste | | | | | | | |
| CONTAINMENT | integrity vegetation and | | | | | | | |
| CONTAINMENT | erosion | | | | | | | |
| ¹⁶ RUN-ON/OFF | Ponding integrity erosion | | | | | | | |
| CONTROL | and damage | | | | | | | |
| ¹⁷ COVER/LID OF | Closed and secured | | | | | | | |
| CONTAINERS | properly | | | | | | | |
| ¹⁸ LABELS | Proper labels on all tanks | | | | | | | |
| | and containers | | | | | | | |
| ⁹ ACCUMULATION | Present and legible | | | | | } ····- | | |
| START DATE | Tresent and regione | | | | | | | |
| ²⁰ COMPATIBILITY | Separated according to | | | | | | | |
| | compatibility | | | | | | | |
| ²¹ INTEGRITY | Integrity leakage | | | | | <u> </u> | | |
| Containers tanks and | deterioration corrosion | | | | | | | |
| ancillary equipment) | and damage | | | | | | | |
| 22 (UN)LOADING | Spills and deterioration | | | | | | | |
| AREA | spins and deterioration | | | | | | | |
| ²³ AISLE | Appropriateness and | | | | | | | |
| | rippropriateness and | | | | | 1 | | |

HAZARDOUS AND MIXED WASTE FACILITY INSPECTION RECORD FORM

| SPACE/S | /STACKING adequacy | | | | | | | | | |
|--|--------------------|--------------------------|--------------------------|-----------|-----|-----|----------|-----|-----|-----|
| I | ТЕМ | INSPECTED FOR: | | MON | TUE | WED | THU | FRI | SAT | SUN |
| ²⁴ PALLET | S AND | Any condition | Any condition that could | | | | | | | |
| RAISED C | ONTAINERS | result in failu | ire | | | | | | | |
| $^{-5}$ TANK S | SYSTEMS | Discharge co | ontrols, | | | | | | | |
| (Above gro | und portions) | leakage, fill l | level, and | | | | | | | |
| | MENT | Corrosion | ting condition | | | | | | | |
| TANKS | VIENI | and leakage | ung condition | | | | | | | |
| 27 SHAFT | | Presence and | condition of | | | | | | | |
| JIII I | , | cover | condition of | | | | | | | |
| ²⁸ FILTER | VESSELS | Deterioration | n and sand | <u> -</u> | | | | | | |
| (for open | ourning) | condition | | | | | | | | |
| ²⁹ OPEN B | URNING | Deterioration | n, vegetation, | 1 | | | | | | |
| UNITS | | sand conditio | on, erosion, | | | | | | | |
| | | and leakage | | | | | | | | |
| ³⁰ OPEN D | ETONATION | Condition, vo | egetation, and | | | | | | | |
| UNITS | | erosion | | | | | | | | |
| ³¹ CEMEN | TATION | Structural integrity and | | | | | | | | |
| UNITS | | condition of | equipment and | | | | | | | |
| | | systems | r | | L | L | <u> </u> | | | |
| | MON | TUE | WED | THU | J | FRI | | SAT | | UN |
| ³² DATE | | | | | | | | | | |
| ³³ TIME | | | | | | | | | | |
| ³⁴ SIGNATURE OF <u>INSPECTOR(S)</u> | | | | | | | | | | |
| | | | | | | | | | | |
HAZARDOUS AND MIXED WASTE FACILITY INSPECTION RECORD FORM

| FACILITY: | Site ID #: | START DATE: | END DATE: |
|-----------|------------|-------------|-----------|
| | | | |
| | | | |

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

Attachment 9 DX DIVISION RCRA SELF INSPECTION CHECKLIST

| SITE ID # | TA | BLDG | ROOM | GROUP | DATE | | AA D | □< 90 | ΠU | WA |
|-------------|--------------|-------------------|-----------------|-----------------|-----------------|--------|----------|-------|----------|----------|
| | | | | | | | | | | |
| | erns 🗆 \ | With concerns | □ Inactive/ | Removed 🗆 | Active but no | t stor | ing [| Com | men | ats |
| WMC: | Joe Richar | dson 🛛 Go | rdon Jio 🗖 | Michelle Ca | ash Other: | | <u> </u> | | | |
| GENERAL | REOUIR | REMENTS | | | | | | | | |
| F 1. Has | the gener | ator initiated a | hazardous w | aste determin | ation/ | | YES I | □ NO | | NA |
| cha | racterized | waste? | | | | | | | | |
| F 2. Are | container | s in good cond | ition? | | | | YES I | □ NO | | NA |
| F 3. Is w | aste comp | atible with con | ntainers? | | | | YES | □ NO | | NA |
| F 4. Are | all contain | ners closed? | | | | | YES | □ NO | | NA |
| F 5. Are | hazardous | s waste contair | ners marked v | ith the words | 5 | | YES | □ NO | | NA |
| "HA | AZARDOU | JS WASTE"? | | | | | | | | |
| Is r | nixed was | te labeled "RA | DIOACTIVE | ?"? | | | ES I | | | NA |
| F 6. Are | constituer | nts of waste on | container"? | | | | YES | | <u> </u> | NA |
| F 7. A. | Have all h | azardous waste | e spills or lea | ks been clean | ed up? | | YES I | | | NA |
| В. | Has the re | sultant clean u | ip materials b | een handled a | is hazardous | | | | - | NTA |
| | waste? | | | | 1 1 | | IES I | | <u>–</u> | NA NA |
| L 8. If s | torage area | a is outside, is | the waste in a | dry sheltered | area and on | Ц | IES I | | | NA |
| | lets or sim | ilar devices so | they are off | ne ground ? | | | VEC | | | NIA |
| F 9. Are | incompati | ible waste segr | egated prope | riy <u>?</u> | | | IES I | | <u></u> | |
| F IO. Are | hazardous | s waste segrega | ated from nor | inazardous wa | iste : | | IES I | | <u>–</u> | |
| L II. Has | SESH-19 t | been notified o | t the location | of the hazard | ious waste | | IESI | | | INA |
| | rage areas | or any change | s in the area? | marlannerator | -9 | | VES | | | |
| F 12. DOG | t wast | e/material nav | e a known ow | /nel/generator | | | IES I | | | |
| F 1 Ist | here an acc | cumulation star | rt date on con | tainers? | | | YES | | | NA |
| F 2 Has | waste exc | ceeded the one | vear time lin | nit? | | | YES | | | NA |
| L 3. Is t | he univers | al waste area s | ign prominen | tly posted and | l visible? | | YES | | | NA |
| SATELLIT | E ACCU | MULATION | AREA | | | | | | | |
| F 1. Is w | aste accur | mulated "at or | near the poin | t of generation | n"? | | YES | □ NO | | NA |
| F 2. Is w | aste "unde | er the control of | of the operato | r of the proce | SS | | YES | □ NO | | NA |
| Ger | erating the | e waste"? | - | • | | | | | | |
| L 3. Do 1 | users of the | e SAA have an | inventory sy | stem or their | names | | YES | □ NO | | NA |
| And | waste pro | files numbers | on containers | ? | | | | | | |
| L 4. Doe | s the SAA | have 🛛 admi | nistrative or l | ☐ physical co | ontrols? | | YES | □ NO | | NA |
| L 5. If th | e SAA is o | outside does it | have physica | l controls? | | | YES I | □ NO | | NA |
| F 6. Is th | ere more t | han 55 gallons | of hazardous | waste or 1 q | uart of | | YES | □ NO | | NA |
| acut | ely hazard | ous waste? | | | | | | | _ | |
| A. If | waste vol | ume has been | exceeded, are | containers m | narked | | YES | □ NO | | NA |
| V | Vith the da | ite the excess b | egan? | | | _ | | | _ | |
| <u>B. H</u> | as the exc | ess amount bee | en held for m | ore than 3 day | /s? | | YES | | | NA |
| L 7. Is th | e storage a | area free of ob | stacles and de | terioration? | | | YES | | | NA |
| L 8. Is th | e satellite | accumulation | area sign proi | minently post | ed and visible? | יםן | YES | | | NA |

| < 90 DAY | |
|---|--|
| F 1. Is there an accumulation start date on every waste container in the <90 day storage area? | □ YES □ NO □ NA |
| F 2. Has waste exceeded the 90 day time limit? | |
| F 3. Is the <90 day storage area inspected at least weekly? | \square YES \square NO \square NA |
| F 4. If deficiencies are noted they corrected in a timely manner? | □ YES □ NO □ NA |
| F 5. Is the <90 day storage area sign and danger sign prominently Posted and visible? | $\Box \text{ YES } \Box \text{ NO } \Box \text{ NA}$ |
| F 6. For ignitable liquids, is the storage area grounded and bonded? | |
| F 7. Does the <90 day storage area have the following required | |
| Equipment readily available? | |
| Spill control equipment | |
| Emergency equipment | |
| Communication equipment, and | □ YES □ NO □ NA |
| Decontamination equipment | □ YES □ NO □ NA |
| Is all of the equipment operable? | 🗆 YES 🗆 NO 🗆 NA |
| F 8. Is there adequate aisle space between containers in the <90 day | □ YES □ NO □ NA |
| Storage area? | |
| F 9. Have the operators/inspectors for the <90 day storage area Completed all required training? | □ YES □ NO □ NA |
| F 10. Is the storage area free of obstacles and deterioration? | □ YES □ NO □ NA |
| F 11. Is a copy of the Contingency Plan at the <90 day storage area? | □ YES □ NO □ NA |
| | |
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Attachment 10 DISPOSAL AT ESA BURNING GROUND

| C930 I the cas <i>least 3</i> the dea | before materials de se of materials to be 0 days before 90 d adline. | signated for disposal at e received from 90 Day ay period expires ESA | the ESA Burn Storage Areas Disposal Unit | ing Ground can be picked up. In this form <i>must be submitted at</i> will not guarantee disposal before |
|--|--|---|--|--|
| DATE | : | | | |
| REQU | ESTER | | _GROUP | PHONE |
| CHAR | GE CODE | COST CODE_ | | WORK PACKAGE |
| 1. | High Explosives (| HE) Scrap | | |
| Type _ | | | | |
| Histor | У | | | |
| Appro | ximate Weight | A | Approximate V | olume |
| 2. | HE Contaminated | Materials* | | |
| Type _ | | | | |
| Histor | y | | <u>,</u> | |
| 3. | Special instruction | ns to Disposal Unit Lea | der (not to be | completed by requester) |
| 4. | *All HE contamir free of lead, beryl | ated materials must be lium, oil, PCBs, and as | certified non-r bestos. | adioactive by ESH-1 RCR and |
| 5. | A waste profile fo | rm must be included w | ith disposal rec | quest for waste acceptance. |
| 6. Model | Bar code/PN | | Nomencl | ature |
| Appro | Wed HE Proces | sing Team Leader | Date | |
| Date o | f Disposal | | | |
| From: | Disposal Request ESA-WMM-233 Revised: May 5, | Form 1998 | | |

DX DIVISION

STANDARD OPERATING PROCEDURE

FOR

PACKAGING AND TRANSPORTATION OF

HAZARDOUS MATERIALS

SOP-3

| Prepared by: | Stephen J. DePaula, DX-1 | Date: |
|--------------|--------------------------------------|-------|
| Approved by: | Kathy Smith, Group DX-1 ES&H Officer | Date: |
| Approved by: | ESH Deployed Team | Date: |
| Approved by: | B. Pruit Ginsberg, DX-1 Group Leader | Date: |
| Approved by: | DX-DO Operations Coordinator | Date: |

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1.0 INTRODUCTION

The Dynamic Experimentation Division (DX) conducts operations and performs experiments requiring the use of various hazardous materials (HAZMAT) such as: Explosives, Gases, Flammable liquids and solids, Oxidizers, Poisons, Radioactive materials, Corrosives, and miscellaneous hazardous materials. Laboratory policy requires that all hazardous materials be packaged and shipped safely and in full compliance with all applicable regulations. This policy is intended to help ensure that personal, public and environmental exposures associated with the packaging and transportation of hazardous materials are minimized. Packaging and transportation of hazardous materials is regulated by the federal government and the DOE Explosives Safety Manual. This Standard Operating Procedure (SOP) describes methods to ensure DX Division personnel involved with all aspects of packaging and transportation of hazardous materials are in compliance with these regulations and policies.

2.0 PURPOSE

The purpose of this SOP is to describe the requirements and procedures to facilitate the safe handling and shipment of hazardous materials for movement within or outside of the Division.

3.0 SCOPE

This SOP is applicable to all DX-Division personnel involved the packaging and transportation of hazardous materials within the DX-Division Technical Areas (On-site), on public roads within Los Alamos County (Intra-Laboratory), and outside the Laboratory (Off-site).

4.0 **DEFINITIONS**

| Authorized Personnel | A DX-Division employee who has demonstrated to his/her line manager the skills required to perform tasks associated with handling and transportation of hazardous materials. Individual is specifically authorized, in writing, by name, group, task and hazardous materials. |
|----------------------|--|
| Hazardous Material | A metarial an arbatance that has been determined by the |
| (HAZMAT) | A material or substance that has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety and property when transported in commerce. The term includes hazardous substances, hazardous wastes, marine pollutants, and |

| Page 4 of 12 | Pac | kaging and Transportation of Hazardous Materials | DX-DO: SOP 3 Original |
|-------------------------------------|----------------------|--|---|
| | | elevated temperature materials as define materials listed in the Hazardous Materials 172.101 and 172.102, and materials that criteria for hazard classes and divisions 173.2. | ted in 49 CFR 171.8, rials Table 49 CFR at meet the defining is listed in 49 CFR |
| HAZMAT Emplo | oyee | A person employed by a HAZMAT em course of employment directly affects h transportation safety. This term include motor vehicles that transport hazardous commerce. It also includes any individe course of employment: | nployer who in the nazardous materials es owner-operators of s materials in lual who during the |
| | 1. 2. 3. 4. | Loads, unloads or handles hazardous m Tests, reconditions, repairs, modifies, r represents containers, drums, or packag for use in the transportation of hazardo Prepares hazardous materials for transp Is responsible for safety of transporting | naterials; narks or otherwise ging as being qualified us materials; portation; hazardous materials; |
| | 5. | or Operates a vehicle used to transport has | zardous materials. |
| HAZMAT Emplo | oyer | An employer who uses one or more of connection with the activities listed for employee. The Los Alamos National I subcontractors are HAZMAT Employe | its employees in a HAZMAT Laboratory and its ers. |
| Hazardous Mater Transfer Form (F | rials IMTF) | The Laboratory form that acts as a ship radioactive hazardous materials shipped Laboratory. It contains such information hazardous materials being transported, HAZMAT being transported and an em telephone number. (See attachments for form). | ping manifest for non- d within the on as the names of the the quantities of hergency response or an example of this |
| Intra-Laboratory | , | The movement of hazardous materials buildings, Technical Areas or across pu which the public has uncontrolled access shipments must conform to DOT regula | between Laboratory Iblic roadways to ss. Intra-Laboratory ations. |

| DX-DO: | SOP-3 |
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| Original | |

| Material Safety | |
|--|--|
| Data Sheet (MSDS) | The document that provides detailed technical information relating to a specific hazardous material. Required by OSHA to accompany hazardous materials in the workplace. |
| Off-Site | The movement of hazardous materials beyond the confines of the Laboratory to another site. The shipment must conform to DOT regulations. |
| On-Site | The transfer of hazardous materials between Laboratory buildings within controlled areas (not across roadways to which the public has access). The transfer must conform to the requirements of the LANL Packaging and Transportation Manual. On-Site is sometimes referred to as "behind the fence". |
| Originator (Customer) | The person or organization that owns the hazardous material and wishes to make an off-site, intra-laboratory or on-site shipment. |
| Packager | Performs the physical preparation of HAZMAT packaging, i.e. places material in packages, assembles internal packaging components, secures and fastens packaging, marks and labels the package. |
| Qualified Personnel | Personnel trained and certified to perform tasks associated with hazardous material packaging and transportation. |
| Radioactive Material Transfer Form (RMTF) | Same as HMTF. Specifically for Radioactive Materials. |
| Shipper | The person or organization shipping the hazardous material. Shipping includes classifying, preparing or signing shipping documents to ship or offer materials for shipment. LANL training requirements must be met before a person can be authorized as a qualified shipper at LANL. |

UN PackagingA packaging which conforms to the specifications in 49 CFR
or the International Air Transport Association (IATA)
Dangerous Goods Regulations. Sometimes referred to as
UN Standard or Performance Oriented Packaging (POP).

5.0 **RESPONSIBILITIES**

5.1 DX-Division Line Management

- Ensures that the necessary policies, procedures, and resources are provided for Division personnel to perform the tasks required to safely package and transport hazardous materials.
- Provide a current listing of personnel within DX-Groups authorized to perform tasks associated with the handling and movement of hazardous materials within the Group.

5.2 DX-Division Packaging & Transportation Coordinator

- Identify, package, handle, mark, label and transport hazardous material and nonhazardous material for shipment on-site, intra-Laboratory and off-site.
- Prepare required shipping documentation for hazardous materials and nonhazardous materials. Documentation includes: HMTFs, RMTFs, Purchase Requests (PRs) Checklists and Shipping Manifests (SMs).
- Coordinate with Laboratory "Shippers of Record" for Division hazardous material shipments.
- Implement DOT, DOE, LANL, DX-Division, and DX-Group P&T policies and procedures.
- Develop and maintain the DX-Division P&T database for HAZMAT shipments.
- Earn and maintain certifications and qualifications as a LANL HAZMAT Shipper, Packager, Shipper by Air, RAM Shipper, Waste Shipper, and Explosives Shipper. Provide technical guidance for training requirements for DX-Division HAZMAT employees.
- Ensure that DX-Division P&T activities are in full compliance with all established directives.
- Mitigate improperly prepared HAZMAT shipments.
- Act as and coordinate oversight for all DX-Division internal and external P&T audits and assessments.
- Develop DX-Division P&T policies and procedures.
- Receive hazardous materials for the Division.

5.3 P&T Customer

- Submit DX-Division P&T Request for services in a timely manner to provide P&T Coordinators reasonable time to prepare shipment and meet Customer's required delivery date.
- Provide adequate information to enable P&T Coordinators to properly identify, package, mark, label and prepare required shipping papers to facilitate shipment. This includes an accurate, up-to-date MSDS for the material being shipped.
- Ensure that Consignee is authorized to receive HAZMAT.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Many of the chemicals used in homes on a daily basis are not regulated; however, once they are put to use in a "Laboratory Environment," they may be regulated and require that specific P&T procedures be followed for on-site, intra-laboratory and off-site shipment. If there is doubt whether a material is hazardous or not, contact the P&T Coordinators for a determination.

6.2 Currently, the Laboratory is permitted to move hazardous materials <u>On-Site</u>- within the confines of Laboratory recognized controlled access areas (behind the fence). These movements of HAZMAT are authorized by DOE because of controls demonstrated by the Laboratory. These controls, in the form of access control, employee training, and written safety procedures, allow for relief from DOT regulations and permit movement of hazardous materials as what normally would be a prohibited practice. DOE requires that On-Site movement of hazardous materials demonstrate the maximum control and safety of operation as practicable to accomplish the mission.

All <u>Intra-Laboratory and Off-Site</u> shipments of hazardous materials form DX Division shall be coordinated through the Division P&T Team.

6.3 DX-Division Line Management is required to identify and designate <u>authorized</u> personnel within specific groups who are permitted to handle and transport hazardous materials on-site. The DX-Division P&T Coordinators are the Laboratory <u>certified/qualified</u> shippers of HAZMAT for intra-Laboratory and off-site hazardous material shipments for the Division. DX-Division Waste Management Coordinators are the recognized shippers of waste for the Division.

6.4 A HAZMAT employee who performs any function regulated by hazardous material regulations may not perform that function unless he or she has received training as described in Subpart H of Part 172 of 49 CFR. Every HAZMAT employee must receive both initial and recurrent training that includes--

• General awareness/familiarization training

- Function-specific training
- Safety training
- Testing

In DX Division, personnel assigned to the P&T Team and the Waste Management Coordination Team are trained/certified HAZMAT Employees.

6.5 The P&T Customer is responsible for ensuring that materials being shipped are correctly identified as either hazardous or nonhazardous. Nonhazardous materials shall be screened to ensure they contain no explosive or radioactive contamination.

6.6 General Explosives Transportation Requirements (See attachment VII).

6.7 The P&T Customer is responsible for ensuring that persons or organizations intended to receive hazardous materials shipped from DX-Division are authorized and prepared to receive these shipments and that approved storage facilities exist for the materials shipped. For On-Site and Intra-Laboratory shipments this requirement is addressed in the LANL Administrative Manual, AR 6-6. Explosive shipments intended for non-DOE facilities shall be approved by the LANL Explosives Review Committee prior to shipment.

6.8 Off-Site shipments of hazardous materials are required to be processed through the Laboratory "Shipper of Record." Explosives, classed 1.1, 1.2 and 1.3, are transferred from DX-Division to ESA-WMA for Off-site shipment. Explosives, classed 1.4, may be transferred to ESA-WMA or BUS-4 for Off-Site shipment. Gases are transferred to the LANL Gas Plant for Off-site shipment. Wastes are transferred to CST for Off-site shipment. All other hazardous materials, to include Radioactive Materials, are transferred to BUS-4 for shipment Off-site.

7.0 PROCEDURAL STEPS

7.1 On-Site, Intra-Laboratory & Off-Site Shipments

7.1.1 On-Site

See Attachment X for On-Site P&T procedures.

On-Site shipments of hazardous materials are not regulated by DOT; however, Laboratory policy requires that site-specific activities be described and defensible with respect to the methodology and compliance process used to meet packaging and transportation safety requirements. Only authorized personnel may participate in packaging and shipping functions. These shipments may be of a routine nature, customary, usual, and/or repetitive to the organization. **Routine shipments** are normally conducted using approved packaging that meets the requirements of the DOE Explosives Safety Manual and DOT Regulations. Nonroutine On-Site shipments are emergency or one-time shipments of hazardous materials within controlled access areas for which there is no approved packaging. Line management shall decide that deviation from standard procedures is necessary to mission accomplishment and permit the deviation. Packages used in the transportation of nonroutine On-Site shipments of HAZMAT shall be adequate and provide the maximum safety possible. The package shall be designed to ensure that there will be no significant release of hazardous material into the environment. The containment measures shall take into account the likelihood and consequences of accidents, route and time of transit. An HMTF or RMTF shall be completed as appropriate and shall accompany the shipment. Emergency response information shall be entered on the transfer form with the person identified as the point of contact available/reachable during the time the shipment is in transit. The package shall be marked and labeled as appropriate to describe the hazards of the material being shipped. Vehicles used to transport hazardous materials shall be approved for such purposes, have the necessary installed safety and emergency equipment and shall be placarded when applicable (See Attachment VII). Personnel performing **On-Site hazardous material P&T functions shall be authorized to perform** those tasks by their Group Management. (See Attachment IX)

7.1.2 Intra-Laboratory

See Attachment XI for Intra-Laboratory P&T procedures.

Intra-Laboratory shipments of hazardous materials must comply with the requirements of DOE Orders, 49 CFR, other applicable regulations and Laboratory policies and procedures. Intra-Laboratory shipments of hazardous materials, in packaging that does not meet DOT requirements, become <u>On-Site</u> shipments and must be transferred over closed roads. Intra-Laboratory shipments of hazardous materials shall be made in authorized government vehicles operated by qualified Laboratory personnel. Training and safety requirements of 49 CFR and the Federal Motor Carrier Safety Regulations apply. An HMTF or RMTF, as appropriate, shall be completed and approved, to include emergency response information, for each Intra-Laboratory shipment and shall act as the Shipping Document. Procedural steps governing Off-site shipments shall be followed for Intra-Laboratory shipments of hazardous materials.

Only <u>qualified</u> HAZMAT personnel may perform Intra-Laboratory hazardous material P&T tasks.

Sec.

See Attachment XI for Off-Site P&T procedures.

Off-site shipments of hazardous materials must be packaged, documented and transported by certified personnel in full compliance with applicable international, federal, state and Laboratory regulations. Off-site shipments of hazardous materials shall be processed through the appropriate Laboratory Shipper of Record. Before shipping hazardous materials off-site, the originator must include emergency response information in the shipping papers. The emergency response point of contact named on the shipping document must then be available to be contacted on a 24 hour basis while the shipment is in transit. The Laboratory Shipper of Record shall forward the emergency response information to the Laboratory emergency response organization before the shipment is released to the commercial carrier. A Shipping Manifest, HMTF or RMTF, as appropriate, shall be completed and approved and together with the MSDS, Emergency Response Guide Book extracts and any applicable exemptions, accompany the shipment to the Shipper of Record.

Only <u>qualified</u> HAZMAT personnel may perform Off-Site hazardous material P&T tasks.

7.2 Shipment Preparation

- 7.2.1 On-Site Shipments: (See Attachment X)
- 7.2.2 Intra-Laboratory Shipments: (See Attachment XI)
- 7.2.3 Off-Site Shipments: (See Attachment XI)

7.3 Quality Assurance

DX-Division P&T activities are conducted under the "umbrella" of the LANL Quality Assurance Plan for Hazardous Material Packaging and Transportation dated May 20. 1993.

7.4 Emergency Procedures

In case of a spill, the Division Waste Management Coordinator, the DX Division Facility Management Designee and the Building Contact shall be notified. If the spill occurs outdoors, the Team Leader with ownership for the area will be notified. If emergency help is needed, call 911. During all emergencies or incidents, Group Management shall be called as soon as possible.

Should an emergency situation arise while transporting explosives on-site, the driver is expected to use a two-way radio. Radios shall be available in HE transport vehicles to enable employees to call for assistance should an emergency or breakdown situation occur.

Instructions and guidelines to follow in the event of an emergency or breakdown with a vehicle carrying High Explosives

7.4.1 Accident / Fire

- Inspect the load for evidence of fire. If there is a fire but the explosive material is not presently or imminently involved, attempt to prevent the fire from spreading to the load. The fire may be fought using the vehicle's fire extinguisher. If explosive items are removed from the vehicle, ensure their security.
- If there is a fire that presently or imminently involves the load, evacuate all personnel to a minimum distance of 1250 feet from the vehicle. Block or divert traffic from the accident or fire. Notify and/or evacuate any potentially affected personnel.
- Unless the explosive cargo is imminently involved in the fire, the operator shall stay with the vehicle until proper disposition of the cargo is accomplished. Immediately notify the fire department of the accident / fire and provide information on the general type and a quantity of explosives involved. Notify the Group office.
- Because of the potential of toxic and radioactive fumes in the event of a fire, the transporter should move "upwind" if possible from the burning vehicle. The emergency radiation exposures and risk of injury to individuals involved in rescue and recovery shall be kept ALARA per 10 CFR 835.1302 and RPP 107-7 of the Radiation Protection Standards.

7.4.2 Mechanical Breakdown

- Remove the vehicle from the roadway as far as practical.
- Notify the appropriate authorities of the situation.
- Maintain visual contact with the vehicle
- If necessary, unload the vehicle to facilitate repair.

8.0 **REQUIRED RECORDS -** Not Applicable

9.0 **REFERENCES**

• Department of Transportation (DOT) Code of Federal Regulations (CFR) 49

- International Air Transport Association (IATA) Dangerous Goods Regulations
- Department of Energy (DOE) Orders 460.1/460.2, "Packaging and Transportation Safety"
- DOE Explosives Safety Manual
- Los Alamos National Laboratory (LANL) Environment, Safety and Health Manual
- LANL Packaging and Transportation Manual
- LANL BUS-4 Site Specific Work Procedures
- ESA-WMA Hazardous Materials (HAZMAT) Transportation Procedures
- DX-Division Operations Manual
- DX-Division Training and Qualification Manual
- 10 CFR 835 and RPP 107-7 (Radiation Protection Standards)

10.0 ATTACHMENTS

- I. DX-Division P&T Request
- II. LANL Hazardous Materials Transfer Form (HMTF), Form 1468 (2/95)
- III. LANL Radioactive Materials Transfer Form (RMTF), Form 1586 (2/95)
- IV. DX-Division HAZMAT Checklist for Off-Site / Intra-Laboratory Shipments
- V. DX-Division Checklist for On-Site Explosives Shipments
- VI. DX-Division Checklist for Off-Site / Intra-Laboratory Explosives Shipments
- VII. General Explosives Transportation Requirements
- VIII. DX-Division Personnel Authorized to Perform HAZMAT Functions
- IX. Hazardous Materials Advisory Council Hazardous Materials Regulatory Reminder (HMAC HMRR) Checklist
- X. DX Division <u>On-Site</u> P&T Procedures
- XI. DX Division Intra-Laboratory and Off-Site P&T Procedures
- XII. Record Of Annual Inspection
- XIII. Driver's Vehicle Inspection Report

ATTACHMENT VII

GENERAL EXPLOSIVES TRANSPORTATION REQUIREMENTS

- 1. Vehicles used to transport HE shall have wheel chocks, tie down straps and tie down points/rings to secure the load.
- 2. When transporting HE, there shall be no loose items, such as handling gear, in the cargo compartment of the vehicle.
- 3. Rear view mirrors shall be installed/mounted on each side of an HE designated vehicle.
- 4. One fire extinguisher with a minimum rating of 2A:10BC shall be installed on all HE vehicles.
- 5. An annual inspection of all HE vehicles shall be accomplished during the annual review of this SOP (See Attachment XII). An operational safety inspection shall be conducted on each HE vehicle prior to daily operation (See Attachment XIII).
- 6. Safety related equipment checks and repairs shall be performed by maintenance personnel during regularly scheduled maintenance periods.
- 7. The speed limit for vehicles transporting HE within DX-Division Technical Areas (TAs) is 25 MPH. The speed limit for vehicles transporting HE on roads between TAs is 35 MPH unless a lower speed limit is posted.
- 8. Explosives shall not be left in vehicles overnight or in unattended vehicles (out of sight of operator).
- 9. When parking an HE vehicle equipped with a manual transmission, the ignition switch shall be turned off, the vehicle transmission placed in first gear and the emergency brake set. Vehicles equipped with automatic transmissions shall be placed in "park" and the emergency brake set when parked.
- 10. A rear wheel shall be secured front and rear with wheel chocks when an HE vehicles is parked on a significant grade.
- 11. Group management approvals shall be obtained prior to transporting explosives.
- 12. The driver shall, at all times, demonstrate professional actions, behavior, manners and attitude.
- 13. Fueling or maintenance of vehicles containing explosives is forbidden.
- 14. No smoking or spark/flame producing devices are allowed within 100 feet of vehicles containing explosives.
- 15. Explosive containers shall not be opened while inside a vehicle. An exception to this requirement is when explosives must be inspected in an emergency.
- 16. Government vehicles transporting HE shall not push or tow other vehicles.

- 17. Vehicle engines shall be off during loading and unloading of HE.
- 18. Vehicles shall not be operated closer than 25 feet of exposed explosives, magazines, or other HE buildings when the facility doors are open.
- 19. Low energy electro-explosive devices (EEDs) shall not be transported with other explosives.
- 20. Personnel are forbidden from riding in the cargo compartment of a vehicle transporting explosives.
- 21. Explosives shall not be transported during poor visibility, heavy snowfall, fog or during heavy rainfall.
- 22. Transportation of explosives during a lightning storm is forbidden.
- 23. When transporting explosives, the driver shall keep a two-way radio with him/her at all times.
- 24. A physical barrier shall be installed/in-place between the driver and the cargo compartment of vehicles transporting explosives.

Attachment VIII

DX PERSONNEL AUTHORIZED TO PERFORM HAZMAT FUNCTIONS ON-SITE

| Name | Group | HAZMAT | Tasks/Authorization |
|------|-------|--------|---------------------|
| | | | S |
| | | | |

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ATTACHMENT X

DX DIVISION ON-SITE P&T PROCEDURES

| N/A | YES | NO | TASK |
|-----|----------|----------|---|
| | | | Authorized to perform P&T task. |
| | | | Authorized to handle this hazardous material. |
| | | | |
| | | | Recipient authorized to receive this hazardous material |
| | | | |
| | | | Vehicle inspected and equipped for transporting HAZMAT |
| | | | |
| | | | HAZMAT Identified |
| | | | Proper Shipping Name |
| | | | Technical Name (if required) |
| | | | Hazard Class and Division |
| | | | UN Number |
| | | | Other (Hazardous Substance, Materials Poison By Inhalation) |
| | | | |
| | | | Packaging |
| | | | Quantity per package |
| | | | Authorized packaging (Group Management approval required if packaging |
| | <u> </u> | | used is non-standard) |
| | | | General packaging requirements met |
| | | | |
| | <u> </u> | | Marking |
| | | | Proper Shipping Name |
| | | | Technical Name (s) |
| | | | UN Number |
| | | | To and From Address |
| | | | Orientation Arrows (if required) |
| | | ļ | Hazardous Substance (if required) |
| | | | Inhalation Hazard (if required) |
| | | ļ | Exemption # (if used) |
| | | | Radioactive Materials (if required) |
| L | | | Class 1 EX Number (if required) |
| | | ļ | |
| | | ļ | Labeling |
| | | ļ | Primary Hazard |
| L | ļ | | Subsidiary Hazard (if required) |
| L | | ļ | Placement |
| N/A | YES | NO | TASK |
| 1 | 1 | | HMTF or RMTF completed |

| Hazardous Materials securely tied-down |
|---|
| |
| Vehicle Placarded (if required) |
| |
| Obtain Group Management (or designee) approval to transport |
| |
| Consignee available to receive hazardous material |
| |
| Consignee signs HMTF or RMTF as receipt |
| |
| HMTF or RMTF filed |

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ATTACHMENT XI

A. Identification

The first step in the procedure to be followed by all HAZMAT employees, who offer products for transportation, is to determine if the material that is being shipped is regulated as a hazardous material. If the material is regulated as a hazardous material, it must be shipped using the prescribed shipping name and description, packaging, labeling, marking, and must be handled as required by regulations.

You must also be aware of any exceptions which may be authorized within the regulations for specific quantities or hazard classes of materials. An exception means that, when authorized within the regulations, and when specific conditions are met, certain materials may not require full compliance with all of the regulations.

The key to proper identification of a hazardous material is information. Gather as much information as possible prior to beginning the shipping process. Sources of information include: MSDSs, asking specific questions about the material and past practices, if they were done correctly.

Determine if the material is regulated as hazardous material, in the intended mode of transportation, in the quantity being shipped. Using the Hazardous Materials Table (HMT) in 49 CFR 172.101 and the following checklist, determine the proper shipping name (PSN):

1. Is the material listed by technical name in Column (2)?

- Yes. It is a regulated hazardous material. Go to Item 2.
- No. It <u>MAY</u> be a regulated hazardous material. Go to Item 6.

2. Is the material listed in Column (2) in Roman Type (not italics)?

- Yes. It <u>IS</u> a proper shipping name. Go to Item 3.
- No. It <u>MAY NOT</u> be used as a proper shipping name. See the entry following the name in italics. Go to Item 3.

3. Is the material listed in Column (2) technically pure?

- Yes. It may be used as the proper shipping name, Go to Item 5.
- No. You may need to select an alternate proper shipping name. Go to Item 4.

4. Is the material in a mixture or solution with other materials, either hazardous or non-hazardous?

- Yes. Select an alternate PSN using the information in Step #1, such as n.o.s., mixture or solution descriptions, etc. For materials which meet the definition of more than one hazard class, consult the Precedence of Hazard Table (49 CFR 173.2(b)). Go to Item 5.
- No. Go to Item 5.

5. After selecting the PSN for the material, check Column (1) of the HMT. Is there a symbol in Column (1), preceding the entry you have selected?

- Yes. Review 49 CFR 172.101(b) that describes the applicability of the symbol in Column (1) to determine if the material is regulated in the intended mode of transportation and if the PSN is authorized. Go to Item 6.
- The material is regulated by all modes using the PSN you have selected, No. unless otherwise excepted. Go to Item 6.
- 6. If the material identified by the PSN is listed in Appendix "A" of the HMT (49 CFR 172.101) and meets or exceeds the reportable quantity (RQ) listed, it is also an environmentally hazardous substance.
 - Is the material being shipped a hazardous substance?
 - Is the material being shipped a marine pollutant?
 - Is it both a hazardous substance and a marine pollutant?

Review Step #1 to select the PSN. Yes.

Continue - Go to Item 7. No.

7. Do the PSN, Hazard Class/Division, UN Identification Number, Packing Group, Special Provisions, Packaging authorization, Quantity limitations, and physical characteristics meet the regulatory requirements and modal considerations for this shipment?

Yes. Go to Item 8. No.

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Back

Review Step #1.

8. Are the materials poisonous by inhalation?

Yes. (Keep in mind for Marking - 7.2.3 Item 7, Labeling and Shipping Papers) No. Checklist complete. Proceed to Package Selection.

B. Package Selection

Each hazard class presents its own unique characteristics which have been take into consideration for determining the safest and most efficient packaging to be use during transportation. As a result of historical experience and extensive testing, specific packaging has been selected for each material to be shipped. This selected packaging is referred to as "authorized" packaging. Only authorized packaging may be used to transport hazardous materials.

When specification packaging is required, hazardous materials shipments must only be offered for transportation when the applicable packaging has been used and the required performance testing has been conducted to qualify the packaging for use. The criteria for testing packages and packaging are found in 49 CFR 178.602-609.

When tests are conducted and packages or packaging are certified as meeting the UN Standard, the packaging manufacturer or other persons conducting the testing, must mark each container with the required specification marking which serves as the official certification. Records of the testing, names and locations where the testing was conducted and the results of those tests are retained for two years and are subject to DOT review at any time. The standards for packaging and the codes for each are found in 49 CFR 178.504 through 178.523. HM 181 and 49 CFR require that all packages and packaging meet or exceed UN Standards.

Using the Proper Shipping Name (PSN) selected, use the following checklist to determine the appropriate package/packaging for <u>each</u> hazardous material to be shipped.

1. Does an entry appear in Column (8A)?

Yes. Go to Item 2. No. Go to Item 3.

2. Read the section listed in Column (8A) and proceed to Section 173...... Does the material to be shipped qualify for an exception in the quantity and type of packaging selected?

Yes. Follow the packaging instructions for the "exceptions" as authorized. Go to Item 8.

No. Go to Item 3.

3. Will the material be shipped in a non-bulk packaging (49 CFR 171.8)?

Yes Read the section listed in Column (8B) and select authorized packaging. Go to Item 5.

No. Go to Item. 4.

- 4. Will the material be shipped in Bulk packaging (49 CFR 171.8)?
 - Yes. Read the section listed in Column (8C) and select authorized packaging. Go to Item 5.
 - No. Go to Item 6.

5. Are special provisions listed in Column (7)?

Yes. Read and follow the appropriate Special Provisions in 172.102 which correspond to the code in Column (7), in addition to the packaging authorization in Column (8). Go to Item 6.

No. Go to Item 6.

- 6. Check Column (5) of the HMT. Check the performance level (X,Y,Z for Packing Group qualification) code within the UN package marking. If a Packing Group is listed in Column (5) does the packaging selected meet or exceed the performance level testing criteria and marking for that Packing Group?
 - Yes. Go to Item 7.
 - No. Select an alternate packaging which meets the performance level for the Packing Group listed. Go to Item 7.

7. Is the packaging marked with the proper code within the UN marking to qualify it for use with the material which will be put in the container?

- Yes. Go to Item 8.
- No. Select an alternate packaging which qualifies for use with the intended contents. Go to Item 8.

8. Does the completed package comply with the General Packaging Standards for all packages in 49 CFR 173?

Yes. Go to Item 9.

- No. Make necessary corrections. Go to Item 9.
- 9. If specification packaging is required, has the package been tested and marked to show that it is qualified to be used in transportation, for the material contained within the package, by displaying the appropriate UN or DOT specification markings and packaging manufacturers symbol?
 - Yes. Checklist completed.
 - No. Review Step #1. Select alternate packaging.

NOTE!!! DO NOT EXCEED THE QUANTITY PER PACKAGE.

C. Marking

Markings on packaging containing hazardous materials offered for transportation provide essential information for communicating the hazards which may be present in the package, and for verifying that the package is appropriate for the contents.

Using the PSN and the package selected, use the following checklist to determine the appropriate Marking for the shipment.

1. The container is a non-bulk package.

- Yes. Go to Item 2.
- No. It is a bulk package. Go to Item 9. (Item 9 deleted)

2. The material has been re-named Consume Commodity and re-classified as ORM-D as permitted in Column (8A) of the HMT.

Yes. Mark the package with the PSN and the ORM-D marking. Go to Item 8. No. Go to Item 3.

3. The material is being shipped under the Limited Quantity exception as permitted in Column (8A) of the HMT.

- Yes. Mark the package with the PSN and the words "Limited Quantity." Go to Item 4
- No. Go to Item 4.

4. Has the PSN, Technical Name, and any other required additional descriptions, and the identification number with the UN or NA prefix been legibly marked in English on the package?

- Yes. Go to Item 5.
- No. Review the marking requirements in 49 CFR 172.300 and make corrections as appropriate. Go back to Item 1.

5. Does the package contain inside containers with liquid contents?

- Yes. Pack with closure upward and mark with orientation arrows to show "this end up". Go to Item 6.
- No. Go to Item 6.

6. Does the package require marking with the name and address of the consignee or consignor?

- Yes. Check for the required marking. Go to Item 7.
- No. Go to Item 7.

- 7. Does the package contain Division 2.3 materials or 6.1 poisonous liquids which will be identified as "Poison--Inhalation Hazard" on the shipping paper? (reference 7.2.1, Item 8)
 - Yes. Check the package for the marking "Inhalation Hazard" in association with the required labels. Go to Item 8.
 - No. Go to Item 8.

8. Does the package contain material identified as a Hazardous Substance?

Yes. Check the package for the letters "RQ" in front of the PSN. Go to Item 9. No. Go to Item 9.

9. Item 9 deals with Marine Pollutants. Disregard unless shipping by water. Go to Item 10.

10. Are all required markings visible on the package and unobstructed by labels or other markings that could make them ineffective?

- Yes. Go to Item 11.
- No Review marking requirements in 49 CFR and make corrections. Go to Item 11.

11. Have additional markings, when appropriate, been applied such as Warning for Class 6.1 (toxic) plastic containers, DOT-E _____, Radioactive Materials, Overpack, Class 1 EX Number?

- Yes. Checklist completed.
- No. Review additional marking requirements in 49 CFR, make corrections. Checklist completed.

D. Labeling

4. and

Labels are a very important means of communicating the fact that hazardous materials are contained in a package offered for transportation, and also provide an easily recognized means of identifying the type of hazards involved. Labels communicate the hazards of the material contained within a package by means of their shape, color, and content. Each label required by DOT to be displayed on a package containing hazardous materials must be produced according to specifications in 49 CFR 172.407.

Using the PSN selected, determine the appropriate labeling to be applied to package of hazardous materials using the following checklist:

1. Is the material identified as a regulated material in the HMT?

Yes. Check Column (6) of the HMT, note all labels listed. Go to Item 2. No. No labels required. Checklist completed.

2. Is the material being shipped under an exception as "limited quantity", "small quantity", or other as listed in Column (8A) of the HMT?

- Yes. Check the requirements of the 49 CFR 173 Section found in Column (8A). Go to Item 3.
- No. Go to Item 3.

3. Has the material been classified as an ORM-D (Consumer Commodity) as authorized by Part 173?

Yes. No labels required. Checklist completed. No. Go to Item 4.

4. Does the material meet the definition of any other hazard class, even though additional labels are not listed in Column (6)?

Yes. Follow Subsidiary Hazard Labels Table in 49 CFR. Go to Item 5. No. Go to Item 5.

5. Does the package require labels representing the hazard class of the materials actually contained therein?

Yes. Affix the required labels to the package. Go to Item 6.

No. No labels may be displayed on the package. Go to Item 6.

- 6. Are labels affixed as indicated below?
- Securely affixed to any surface other than the bottom
- On the SAME side as the PSN marking if the package is large enough
- On a background of contrasting color or have a contrasting border
- Visible and not obscured by markings or attachments
- Multiple labels, when required, displayed next to each other (subsidiary should be adjacent to the right and below primary)
- Primary hazard label with Class and/or Division number in lower quadrant
- Subsidiary hazard with NO Class or Division number displayed in lower quadrant.
- Multiple labels when required for larger packages
- Proper color, size, specification and orientation (diamond on point, writing horizontal, readable left to right)
- ALL labels visible when overpacked or placed inside an outer container OR additional labels on the outside container

• All modal label requirements checked and labels or stick-on type markings affixed if required (CARGO AIRCRAFT ONLY, MARINE POLLUTANTS, etc.)

Yes. Labels comply. Checklist completed.

No. Review 49 CFR 172.401-450, make corrections and complete checklist again

E. Prepare Shipping Papers

The Shipping Paper is a very important part of the communication process for identifying hazardous materials which are offered in transportation and, if properly prepared, provides vital information for emergency response personnel in the event of an accident.

DX-Division personnel do not prepare shipping papers since shipping papers are prepared by the Laboratory "Shipper of Record" for the hazardous material being shipped. However, the Shipper of Record will require specific information from DX-Division P&T personnel to facilitate the shipment. DX-Division P&T personnel shall provide shipping paper information in draft form to the Laboratory Shipper of Record.

The following information is required as appropriate:

- Proper Shipping Name
- Technical Name
- Hazard Class/Division
- UN/NA Number
- Packing Group
- Total Quantity (Gross or Net)
- 24 Hour Emergency Response Names (2)

Work Telephone Number Home Telephone Number

- DOT- E Number
- Limited Quantity
- Hazardous Substance (RQ / Name)
- Dangerous When Wet
- Poison / Name
- Inhalation Hazard / Zone
- Hazardous Wastes
- **RESIDUE**: Last Contained

F. Placarding

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Placards are used to communicate the hazards within a cargo transport vehicle which contains certain packages of hazardous materials when offered for transportation. Placards are required to be constructed of durable material with minimum dimensions specified in 49 CFR 172.519. When properly displayed in transportation, placards provide emergency responders with a warning sign identifying hazardous materials which may pose health or safety problems in an accident.

DX-Division personnel are not normally required to transport hazardous materials in commerce. Placarding of vehicles transporting hazardous materials Off-site and Intra-Laboratory is the responsibility of the Laboratory Shipper of Record and the Carrier.

However, DX-Division HAZMAT personnel may be required to transport HAZMAT On-Site, thus requiring placards.

DX-Division HAZMAT personnel transporting hazardous materials ON-Site shall placard the transport vehicle as required by 49 CFR 172.504, Table 1 or 2. If Placards are required, they shall comply with display requirements outlined in 49 CFR 172.504-519.

G. Exceptions

1. <u>General Procedures</u>

Elements of DX-Division as well as other organizations in the DOE Complex create new explosives to be used and tested for future projects. A new explosive is (1) an explosive produced by a person who has not previously produced that explosive or (2) an explosive previously produced by a person who has made a change in the formulation, design or process so as to alter any of the properties of the explosive.

Transportation regulations require new explosives be approved by a competent authority. The authority in the United States is the Associate Administrator for Hazardous Material Safety.

New explosives made by or under the supervision of the DOD or the DOE may be approved in the same manner as commercial explosives producers through Bureau of Explosives or the Bureau of Mines; or through examination, testing and approval by either the designated Army, Navy, or Air Force component of DOD, or by the Department of Energy. The classifying entity sponsoring development of an explosive item or assembly is responsible for developing necessary data. This data is used to assign an appropriate hazard class/division, compatibility group, DOT shipping description, DOT label and UN number. A report of each approval granted by DOD or DOE(with supporting laboratory data) must be filed with the DOT Associate Administrator and an acknowledgment must be received prior to offering the new explosive for transportation.

2. Interim Hazard Classifications

An Interim Hazard Classification (IHC) exemption temporarily authorizes transportation of new explosives when offered by DOE contractors under commercial bills of lading. The IHC is not applicable for shipment of explosives by private contractors for non-DOE contracts. The organization sponsoring development of an explosive substance or assembly is responsible for requesting the IHC and for providing supporting data to the responsible DOE IHC authority. Any change in packaging or explosive components in an item requires reexamination of the item by the responsible IHC authority to ascertain the need for revision of the IHC. An IHC exemption may be issued for a period up to one year. Extension beyond one year requires a request from the originator, with justification, for renewal by the issuing organization.

3. Explosive Numbers (EX Numbers)

EX Numbers are assigned to new explosives after considerable testing and analysis. A written request for a permanent classification action is prepared stating the proposed classification, method of packaging, marking, labeling, and mode of transportation. Applicable supporting data is submitted along with the request to the responsible DOE Operations Office. Upon review and determination that the request is proper and the data supports the hazard classification assignment, the operations office will approve the request, assign permanent classification, and issue a classification approval document. Copies of the classification approval document and supporting data are submitted to DOE Headquarters for a submittal review and filing with DOT. The official submittal by HQ/DOE to DOT formally requests the DOT registration of the material being classified. Under DOT's new explosives classification program DOT Competent Authority Approval is provided along with the registration (EX-Number).

4. DOT Exemptions

N. 45

The use of DOT Exemptions for the packaging and transportation of hazardous materials is authorized in accordance DOT regulations specified in 49 CFR 171-180. The DOT exemption procedures for DOE contractors are detailed in DOE Order 1540.2, "Hazardous Material Packaging for Transport - Administrative Procedures."

DX-DO

STANDARD OPERATING PROCEDURE

FOR

FOR TA-8, 9, 14, 15, 22, 36, 39, 40 & 69

DIVISION EMERGENCY GUIDE

SOP 07

| Prepared by: | Date: M. A. DeMaria, DX-4 |
|--------------|--|
| Approved by: | Mate: K. A. Firestone, DX-DO ES&H Coordinator Date: |
| Approved by: | Date: C. A. Nelson, DX-ESH <u>Deputy Facility Manager</u> |
| Approved by: | C. M. Montoya, DX-DO Operations Coordinator |
| | Controlled Document Number: |

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<u>EMERGENCY – 911</u> <u>Emergency Management Office – 7-6211</u> <u>Facility Manager Office (when dialing out of the Laboratory, dial 665-9800, 104-2926 then your phone number)</u> <u>Emergencies during operations at Firing Sites,</u> <u>Contact: The Access Control Office at 7-6742 As Soon As Possible (ASAP)</u>

1.0 INTRODUCTION

In an emergency, the well-being of those individuals nearest the hazard should be the overwhelming concern, with decisions to evacuate and/or administer first-aid being the primary consideration of individuals on the scene.

2.0 PURPOSE

This document describes some emergency responses within DX Division.

3.0 SCOPE

This Guide applies to all personnel working at or visiting sites operated by **DX Division**. All personnel will comply with emergency guidance for those locations.

4.0 **DEFINITIONS**

- EM&R Emergency Management and Response.
- FMD Facility Manager Designee for DX-Division, Pager No. 104-2926 (FMD rotate on a weekly basis).
- **On-Scene-Commander** person in charge on scene until released by the Incident Commander or a person with higher authority from the division.
- Emergency Management Coordinator appointed by Division Managers as needed in time of emergency.
- Critical Duty Personnel Manager in charge, individual(s) securing files, operations, and those performing final evacuation sweeps.
- Incident Commander person from LA Fire Department or EM&R will be in charge on scene.

5.0 **RESPONSIBILITIES**

5.1. Line Management

Line management will ensure that all personnel are familiar with and will comply with this Guide.

5.2 Workers and Visitors

Workers and visitors will comply with this Guide and will work in a manner that provides for their own safety, the safety of their fellow workers and minimizes environmental insult.

6.0 **PRECAUTIONS AND LIMITATIONS**

Under no circumstances will anyone be directed or allowed to place themselves in additional danger by attempting to rescue others or mitigate the situation. Notification of individuals who will be responsible for directing emergency procedures should not be at the expense of prolonged exposure of anyone to imminent danger.

7.0 PROCEDURAL STEPS

7.1 Emergency Response

- Survey the area and help the injured if possible.
- If possible keep the problem from spreading.
- Do not add yourself to the list of victims.
- Reader shall contact Group Office as soon as possible.
- The most important thing that you can do is to call 911 as soon as possible for fire and/or medical emergencies, for all other emergencies call EM&R at 667-6211.
 - When you call **911**; answer all questions as clearly as you can.
 - Stay on the line until you are told to hang up.
 - Listen to the person on the line and not others in the area.
 - Remember, help is on the way and don't hang up until you are told to.
 - As soon as you are finished with the call to **911**, take charge of the situation and make your way to a point (or assign someone to do this) where you can intercept emergency personnel when they arrive.
 - Ask others in the area to make sure that personnel are accounted for at the muster point (See Attachment 1) and to call your Group Office/Line Management as soon as possible. A follow-up call to 911 is recommended.

DX-DO: SOP 07 OriginalRevision A

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| DX DIVISION | PHONE NUMBER |
|-------------|----------------------------------|
| DX-DO | 7-5653 |
| DX-1 | 7-6604 |
| DX-2 | 7-4411 |
| DX-3 | 7-4425 |
| DX-4 | 7-4246 |
| DX-5 | 7-4624 |
| DX-6 | 5-5833 |
| DX-7 | 7-5255 |
| DX-8 | 5-5830 |
| FMD's | Page 104-2926 / 8-1-505-699-1765 |

The Group Office/Line Management will contact DX-DO, the Facility Manager, and others as necessary. Limit the use of telephones, two-way radios and the paging systems for important communications. Only use the paging system for site-wide announcements.

When emergency response personnel arrive, advise the Incident Commander of the situation and release control. Stay available for consultation until the situation is under control or you are released.

7.2 Types of Emergencies

The following is a list of possible emergency situations to be considered:

- personal injury
- unplanned release of hazardous or toxic materials
- fire
- confined spaces rescue
- explosion
- natural disaster
- civil disturbance
- national emergency
- electrical shock

7.3 Communication

Telephones, paging systems, two-way radios, automatic fire alarm pull boxes may be used to alert personnel for emergency situations.
7.3.1 Telephone

Use the telephone to call for help (911). Keep the telephone free in case emergency personnel need to call back.

If the emergency causes a power failure, modern electronic telephones are unreliable. They depend on house power to light the line indicators and to sound the ring tone. Certain communications equipment throughout the division have Uninterruptable Power Supplies (UPS), but the life of these systems is short.

7.3.2 Paging Systems

- Limit paging system, use for necessary communications.
- Use paging system announcements to call for help or alert people in the immediate area.

7.3.3 Two-Way Radio

Two-way radio contact is preferred. Each site has personnel who carry hand-held radios and each group office has radio communications.

| DX Division Group | Two-Way Radio Channel |
|-------------------|-----------------------|
| DX-1 | 1 |
| DX-2 | 2 |
| DX-3 | 3 |
| DX-4 | 4 |
| DX-5 | 5 |
| DX-6 | 6 |
| DX-7 | 7 |
| <u>DX-8</u> | 4 |
| DX-DO | 8 |
| LANL Emergency | Last Channel(s) |
| Channel | |

- A hand-held radio can be used if a telephone is not available.
- Press the button on the left side and wait for the beep then speak normally.
- Release the button when you are finished speaking.

All hand held radios have been programmed, such that the last channel(s) (clockwise to stop) is the LANL Emergency Channel.

7.3.4 Automatic Alarms

High-temperature detectors are located throughout the division and automatically signals the fire department. They sound a local alarm (usually a siren or bell) to warn you. Buildings with automatic sprinkler systems signal the fire department and sound a local alarm when activated.

7.3.5 Fire Alarm Pull Box

Most DX occupied facilities have fire alarm pull boxes used for summoning assistance. **Familiarize yourself with their locations**.

Follow up with a call to 911 as soon as possible.

7.4 Coordination

7.4.1 As soon as a call to 911 is complete, send someone to meet emergency response personnel and have someone call your Group Office from another telephone. The Group Office will ask a number of questions (See Attachment 2), to document the situation. If you need additional help, ask the Group Office to try to get help before the report is completed.

7.4.2 The Division maintains a listing of personnel called Facility Manager Designees (FMD). The FMD will act as the single point of contact for all outside entities needing response to incidents involving the DX Division. The individual on call will notify line management or other personnel, as appropriate, about all incidents and actions taken.

7.4.3 Once notified, line management will appoint a Emergency Management Coordinator and a core team to handle emergencies as needed.

- When notified, each group will provide the following information to the core team: 1) initial/standard hazards associated with each of the buildings they are responsible for, 2) any changes in status, 3) names of individuals (critical duty personnel) to be called in case of emergencies (after hours), 4) utility concerns, 5) equipment concerns (group/building) and, 6) specific on-going operations.
- The Emergency Management Coordinator will keep Division and Group Management appraised of the situation.
- Group Management will contact critical duty personnel, at the request of the Emergency Management Coordinator, and tell them where to report. These personnel will provide support to the core team.
- If critical duty personnel report after hours, each will be provided with a radio, will be logged in, and will be provided with a phone number to call when entering and exiting specific areas. The Emergency Management Coordinator will provide PTLA and The LANL Emergency Operations Center (7-6211) with the names of these individuals and their locations. The purpose of this is to maintain a head count of personnel who are in the area. The form in Attachment 2 may be used for this effort.

• The core team will direct the response to the emergency until the emergency can be declared over.

7.5 Emergency Procedures Guidance

The following procedures should be used as a guide to responses, however, experience and common sense are your best guides. If you are trained in the use of fire-extinguishers, (**Familiarize yourself with locations of fire extinguishers in your work areas**) and believe that you can safely fight a fire, do so.

Basic actions in any emergency are:

Don't become a victim

- Call **911** as soon as possible.
- Call your Group Office as soon as possible.
- Determine if the scene is safe, help the injured, if possible, without endangering yourself and others, get to safety, and stay at the muster or safe location area until told to leave.
- If possible keep the emergency from spreading.
- Do not enter a confined space to aid an injured person. Call for rescue personnel.

7.5.1 Personal Injury

- Call for help (911)
- Provide first aid as needed
- Shout for help in case anyone is nearby
- Stay with the victim until help arrives
- Call your Group Office as soon as practical

7.5.2 Fire In An Explosives Area (Orange No. 1 Sign)

- If a fire is discovered in or near an explosives facility, all personnel shall leave the fire area immediately and shall make no attempt to control or extinguish the fire. Personnel should go to the nearest safe location, sweeping the area as they go. Notify your Group Office as soon as possible, giving them your location and the situation.
- When fire <u>does not</u> involve explosives, is not too big, and if you are trained in the use of fire extinguishers, you can fight the fire safely. Try to smother it or fight it with a fire-extinguisher. If you can't fight the fire, shout a warning to others in the area and get away. If possible, help the injured and call for help as soon as possible. Use a pull box if one is available. Call **911** from the

nearest safe telephone and go to the muster area for that location. Call your Group Office as soon as possible.

If the fire involves explosives or is in proximity to explosives, leave the area immediately, notify others in the area, call 911<u>; as soon as possible, call the FMD on Pager No. 104-2926 they will contact DX-Division Office and appropriate Group Office. and call your Group Office as soon as possible.</u>

7.5.3 Fire In A Non-Explosives Area

If the fire is not too big, you may try to put it out by smothering or use of a fire extinguisher. If you can't fight the fire, shout a warning to others in the area and get away. If possible, help the injured, and call for help as soon as possible. Use a pull box if one is available. Call **911** from the nearest, safe telephone and go to the muster area for that location. The fire department must respond to any fire to ensure the fire is out. From a safe location, call your Group Office as soon as safe and practical.

7.5.4 Fire In An Area Containing Flammable Liquids

Fire near flammable liquids is very dangerous because the material may give off toxic gases or the container may explode. You may smother a small fire in a beaker or tray, but do not try to fight a larger fire. If you can't fight the fire, shout a warning to others in the area and get away. If possible, help the injured, and call for help as soon as possible. Use a pull box if one is available. Call **911** from the nearest safe telephone in any case, and go to the muster area for that location. Call your Group Office as soon as safe and practical.

7.5.5 Fire In Electrical Equipment

- Turn the equipment off if you can do so safely. Use only type C fire extinguishers on an electrical fire. If you can't fight the fire, shout a warning to others in the area and get away. If possible, help the injured after making sure that they are not in contact with live wiring. Call for help as soon as possible. Use a pull box if one is available. Call **911** from the nearest safe telephone in any case, and go to the muster area for that location. Even if you put the fire out, call **911**. Call your Group Office as soon as it is safe and possible.
- TA-39: (**One exception**) is a fire produced by the discharge of pulse power equipment (if limited to that equipment) this may not be an emergency situation, as determined by a qualified operator.

7.5.6 Grass Fire

In cases where a grass fire is caused by firing site activities, and the fire department is not on stand-by at the site, call **911** and then, if you can safely control the spread of the fire, you may do so until the fire department arrives. (Call your Group Office as soon as safe and practical).

7.5.7 Natural Gas Fire

Do not fight a gas fire. If you can do so safely, turn off the gas at the main. Each regulator is equipped with a wrench for this purpose. Familiarize yourself with their locations. If you see a regulator without a wrench, notify the Facility Area Coordinator. If you see a gas fire, shout a warning to others in the area and get away. If possible, help the injured, and call for help as soon as possible. Use a pull box if one is available. Call **911** from the nearest safe telephone in any case, and go to the muster area for that location. Call your Group Office as soon as safe and practical.

7.5.8 Explosion

• If an accidental explosion occurs, shout a warning to others in the area and get away. Help the injured, if possible, and call for help as soon as possible. Use a pull box if one is available. Call **911** from the nearest safe telephone, and go to the muster area for that location. Call your Group Office as soon as safe and possible.

7.5.9 Release Of Hazardous Material

Released hazardous material can be deadly. If you encounter a large release of hazardous material, shout a warning to others in the area and get away. Help the injured, if possible, and call for help as soon as possible. Call **911** (explain the hazard as best as you can) from the nearest telephone, and go to the muster area for that location. Call your Group Office and have them notify the Division Spill Coordinators so they can be at the scene when help arrives. If personnel are injured, and you know what material was released, refer to the Material Safety Data Sheet (MSDS) for first aid instructions.

7.5.10 Confined Spaces

Do not enter these spaces, in an attempt to aid an injured person. Call 911 and wait for help and keep others from going into the area. Call your Group Office as soon as safe and possible.

Division Emergency Guide

7.5.11 Vehicular and Industrial Accidents

Vehicular or other types of industrial accidents are more likely to occur within the DX Division than any other injury-causing accident (including accidents involving explosives). Any employee encountering an accident should give whatever aid is possible at the time. When an accident occurs, first stop and aid the injured. Call **911** then notify your Group Office. Inspect the accident site to determine whether any condition exists that might cause injury to rescue personnel. Continue to give first aid until rescue personnel arrive.

7.6 After Hours Emergencies

Call 911, and then call the Facility Manager's On Call Designee.

7.7 Site-wide Emergency

In the event of a site wide emergency, DX Management/EM&R will instruct personnel within DX operation areas of actions to be taken which may include taking shelter, evacuation routes, muster areas and/or other necessary information.

7.7.1 If a location needs to be evacuated, two levels of evacuation will be performed. The first level is the evacuation of non-critical duty personnel. Personnel should close all doors and windows as they are leaving. The second level of evacuation is the evacuation of all personnel. In this level, critical duty personnel perform a sweep of the area as they evacuate.

7.7.2 Evacuation routes: Except for Ancho Canyon, TA-16, and TA-3 operations, personnel should exit through Gate 431 (formerly gate 502). Once an evacuation is announced, gates at S-Site and at TA-36 may also be opened. Ancho Canyon will evacuate as informed by DX Management or EMO. TA-16 & TA-3 will evacuate according to the Emergency Guides in the FMU they reside in.

7.8 Emergency Drills

Building evacuation procedures will be tested annually. As time permits, other specific emergency drills will be conducted. When a test or drill is conducted, be prepared to critique your response. "Practice makes perfect".

7.9 Handling Classified Matter

For Handling Classified Matter & SNM $\underline{\partial}\underline{d}$ uring $\underline{e}\underline{e}$ mergency $\underline{e}\underline{E}$ vacuation $\underline{\partial}\underline{d}$ rills and/or $\underline{\partial}\underline{d}$ uring $\underline{an}\underline{An} \underline{Aa}$ ctual $\underline{E}\underline{e}$ mergency $\underline{E}\underline{e}$ vacuation. (See Attachment 43).

8.0 **REQUIRED RECORDS**

None

9.0 **REFERENCES**

LANL Emergency Response Plan

10.0 ATTACHMENTS

- Attachment 1 Muster Areas
- Attachment 2 Emergency Call Report and Occurrence Call Report
- Attachment 3 Emergency Call List
- Attachment 43 Handling Classified Matter & SNM

Attachment 1 - Muster Areas

<u>TA-8</u>

| Emergency Location | Muster Area |
|--------------------|---|
| Building 21 | Northeast of Bbuilding in Pparking Llot |
| | |

<u>TA-9</u>

| Emergency Location | Muster Area |
|--------------------|---|
| Building 21, 29 | Southwest Corner corner of the Pparking |
| - | <u>Ll</u> ot |
| Buildings 46, 48 | Southwest of Bbuildding 48 |

<u>TA-14</u>

| Emergency Location | Muster Area |
|--------------------|---------------------------------|
| All buildings | North of Bounker at access gate |
| | |

<u>TA-15</u>

| Emergency Location | Muster Area |
|--|--|
| Buildings R50, R20, R194R40, R305 | Southwest pCorner of Parking Llot. next to |
| | guard building |
| Buildings183, 446 R50, R20, R194, R203 | Southeawest Ecorner of Pparking Llot |
| Buildings 313. R285, 447, 448, 456, 464, | Southweeast Corner of Pparking Llot |
| 465, 466, 468, 476Buildings 183, 446 | |
| Buildings 313, R285, 447, 448, 456, 464, | Southwest corner of parking lot |
| <u>465, 466, 468, 476</u> | |
| Building R306 | In Bunker, unless instructed to assemble |
| | at Access Control Office |
| Building 446 | West of Bbuilding Nnorth Eedge of |
| - | Pparking <u>Ll</u> ot |
| Building 312 | Southeast corner of parking lot |

<u>TA-22</u>

| Emergency Location | Muster Area |
|--------------------|--|
| Building 90 | Southwest corner of the parking lot in front |

| | of Building building 90 |
|---------------------|---|
| All other buildings | Southwest corner of the parking lot west of |
| | Building building 5 |

.7

Attachment 1(continuation) - Muster Areas

<u>TA-36</u>

| Emergency Location | Muster Area |
|---|--|
| Building 183For all building and firing | Instructed to assemble at Access Control |
| sites at TA-36 | OfficeAssemble at nearest bunker, unless |
| | instructed to assemble at Access Control |
| | Office TA-15-446 |

<u>TA-39</u>

| Emergency Location | Muster Area |
|------------------------------|---------------------------------------|
| Buildings 2, 62, 98, and 103 | East - Side side of Pparking Llot |
| All other buildings | Assemble Nat nearest Bbunker, unless |
| U | instructed to assemble at a different |
| | location |

<u>TA-40</u>

| Emergency Location | Muster Area |
|----------------------------------|--|
| Building 1, 23, and 90 | Near the swinging arm gate |
| All Firing Sites TA-40 Buildings | Nearest Bunkerbunker, unless instructed to |
| - | assemble at a different location |

<u>TA-69</u>

| Emergency Location | Muster Area |
|--------------------|-----------------------------------|
| Trailers | Outside the Ggate at Sstation 431 |

Attachment 2 EMERGENCY CALL REPORT AND OCCURRENCE CALL REPORT

| Date: | |
|---|---------------------------------------|
| Time: | |
| Call Received by: | |
| Caller: | |
| Caller Phone Number: | |
| | |
| EMERGENCY L | OCATION |
| Technical Area: | Building: |
| Room: | Other: |
| Nature of Emergency: | |
| | · · · · · · · · · · · · · · · · · · · |
| | |
| | |
| | |
| | |
| · · · · · · · · · · · · · · · · · · · | |
| | |
| Special Hazards (explosives, electrical, radiolog | ical, etc.): |
| | |
| | |
| | |
| Did caller call 911: | |
| Follow up call to 911: | |
| Notify Facility Manager Designee (104-2926): _ | · · · · · · · · · · · · · · · · · · · |
| Notify Division or Group Safety Officer: | |
| Notify Group Management: | |
| Notify Division Office: | |

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. Marina -

Attachment 3

HANDLING CLASSIFIED MATTER & SNM DURING EMERGENCY EVACUATION DRILLS

All evacuation drills must be clearly announced as drills.

Prior to evacuation of personnel, all classified matter and SNM must be secured.

Alternative to securing classified matter in approved repositories during a drill is to designate specific appropriately-cleared personnel to remain.

During evacuation drills, material surveillance procedures must be maintained for all Category I and II SNM.

HANDLING CLASSIFIED MATTER & SNM DURING AN ACTUAL EMERGENCY EVACUATION

If life and safety are in jeopardy, leave all classified matter and SNM as is and leave the area immediately.

If life and safety are not in jeopardy, normal locking and alarming procedures should be followed before evacuating.

If small amounts of material are involved, evacuee may carry material out if it can be fully protected from loss or compromise. SNM and other hazardous products <u>must not be removed</u> from area during evacuation.

Evacuees must report to their supervisors any material or repositories left unattended and any material hand-carried outside the Security Area. All classified material left unattended must be accounted for.

No security infractions will be issued for failure to completely follow locking and alarming procedures during an emergency evacuation.

If classified matter is missing after an evacuation, S-6 must be notified immediately of the discrepancy.

If SNM is missing after an evacuation, S-4 must be notified immediately of the discrepancy.

HE STORAGE

IN

DX DIVISION

DX-DO: SOP 08

| Prepared by: | G. D. Vasilik, DX-4 | Date: |
|--------------|--|-------|
| Prepared by: | K. J. Uher, DX-2 | Date: |
| Approved by: | K. A. Firestone, DX-DO ES&H Coordinator | Date: |
| Approved by: | C. A. Nelson, DX-ESH Deputy Facility Manager | Date: |
| Approved by: | C. M. Montoya, DX-DO Operations Coordinator | Date: |
| | Controlled Document Number: | |

HE STORAGE IN DX DIVISION

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1.0 INTRODUCTION

This SOP covers the safe handling and storage of high explosives (HE), energetic materials (EM), and explosive-containing devices at DX Division storage magazines. Storage is approved at designated DX Division storage magazines for allowed explosives.

2.0 PURPOSE

This SOP describes allowed storage procedures and protocols, identifies the hazards involved in storage operations, and specifies ways to minimize these hazards. Quantities allowed in storage are designated by magazine. Storage compatibility groupings, personnel limits, and operating procedures are specified in section six (6). All quantities allowed in storage at DX Division magazines have been calculated using the appropriate quantity-distance formulas for the type of magazine and its proximity to inhabited work areas or public access areas (see DOD 6055.9 STD). Compatibility groupings are in accordance with the provisions set forth in the DOE Explosives Safety Manual, (DOE M440.1-1, Rev. 8).

3.0 SCOPE

This SOP applies to all explosives, personnel, operations, and equipment in or near DX Division magazines.

4.0 **DEFINITIONS**

- Allowed Explosive Any explosive that may be stored in DX Division Magazines or used in DX Division preparation rooms, without special permission or special procedures. A list of routinely used allowed explosives is given in Attachment 2.
- Approved Container The following containers are approved for storing explosives. Containers approved and used by ESA Division for on-site and public road shipment. Containers approved by the Department of Transportation (DOT) for interstate shipment. Containers approved by the DX Group Leader(s) or designee, for unique packaging requirements.
- EBW Exploding bridgewire
- ECD Explosive containing device (includes experimental assemblies with HE attached)
- **EED** Electroexplosive device containing a reaction mixture (explosive or pyrotechnic) which is initiated electrically, and may contain primary explosives.
- Energetic Material: Any material that liberates energy with or without oxygen which includes but is not limited to explosives, propellants, pyrotechnics and gas generates.
- EP Explosion Proof
- ERC Explosives Review Committee
- **Explosives:** Explosives are defined in the *DOE Explosives Safety Manual* as any chemical compound or mechanical mixture that will burn or explode if heated, exposed to impact, pinched

between moving surfaces, or subjected to an electric discharge or strong shock. The term applies to materials that either detonate or deflagrate.

- Explosives Allowed Area Any area where explosives or explosive containing components are allowed.
- Explosives Load Limit The total net explosive weight permitted in the magazine. The explosive load limit is posted on each magazine.
- Handling Operations in which explosives are stored, manipulated or prepared for firing.
- **Incompatible materials** Materials that produce unsafe conditions when in proximity to or in contact with explosives.
- Long Term Storage Greater than 180 days.
- Low Energy EEDs All (electro explosive devices), EEDs except exploding bridgewire (EBW) and slapper detonators. Low energy EEDs include hot wire initiators, squibs, blasting caps, etc.
- Magazine A structure designed for long term (greater than 180 days) storage of explosives.
- Magazine Assistant Manager Same as the magazine manager.
- Magazine Manager The person who is authorized by the Group Leader as being responsible for all activities associated with magazine(s) operation.
- **Personnel Limit** The posted number of persons permitted in the magazine.
- **Primary Explosives** Explosives with a sensitivity greater than pentaerythritoltetranitrate (PETN) (for example, lead azide, lead styphnate or mercury fulminate). DX Division does not use primary explosives except with specially approved procedures or when included in EEDs.
- Service Magazine A small magazine containing no more than 500 kg of explosives, usually located adjacent to a Preparation Room, and traditionally used for short-term storage.
- Short-Term Storage Storage for less than 180 days.
- SOP Standard Operating Procedure
- Storage Review Period the length of time (as determined by the ERC) between inspections and/or testing of stored HE.
- SWP Special Work Permit
- Vault (or wing vault) A locked closet exterior to the body of the magazine (usually in the concrete wing).

5.0 **RESPONSIBILITIES**

5.1 Personnel

5.1.1 Magazine Manager

- Performs or directs operations to ensure the proper maintenance of the magazines including allowed explosive storage, load limits, cleanliness, security, and HE inventory.
- Ensures that personnel and explosive load limits are posted at or on each magazine.

5.1.2 Assistant Magazine Manager

• Responsible for operation of the magazine when the Magazine Manager is absent or requires assistance.

5.2 Training

5.2.1 Explosive handling shall be performed only by personnel with a minimum training of four months supervised on-the-job training and supervisory approval in accordance with DX Division Training and Qualification Manual.

6.0 **PRECAUTIONS AND LIMITATIONS**

6.1 Hazards

The general hazards associated with HE or ECDs are fire, blast, and fragments. Even small quantities of HE may pose a life threatening hazard.

Hazardous operations include any operations whereby HEs or ECDs are or may be exposed to open flame, heat, electrical spark, friction, impact or exposure to contaminants or chemical agents (such as glues) with which the HE or ECD may be incompatible and can develop violent chemical reactions.

6.2 Load Limits and Personnel Limits

6.2.1 Personnel and HE Limits

Personnel and HE Limits for each magazine shall be posted at or on the exterior of the building and shall be obeyed. Exceptions will be approved by the group leader or designee. The limits for DX Division magazines are listed in Attachment 4.

6.3 **Permitted Explosives**

6.3.1 Storage Compatibility Classes

Explosives will be segregated in storage according to the Explosives Storage Compatibility Classes described in the *DOE Explosives Safety Manual*. These classes are included in Attachment 1, for easy reference.

6.3.2 Allowed Explosives

Energetic materials, explosives or explosive-containing devices that have been approved by the ERC or listed in (ESA) WX-3: SOP 1.1.0, Tables 1 & 2 may be stored. The list of routinely used explosives is given as Attachment 2 in this SOP.

6.3.2.1 Newly Synthesized Energetic Materials

All newly synthesized energetic materials shall be storage compatibility Group "L" and stored in a magazine so designated. The review date will be in 90 days. After sufficient testing the data may be submitted to the ERC for a determination of an appropriate storage compatibility group and review period.

6.3.3 Exceptions

If an explosive cannot be stored in accordance with this <u>SOP</u>, the SOP must be revised or a SWP must be written and approved.

6.3.4 MSDS Forms for Explosives

The MSDS forms describing explosives are maintained by the ESH officers and shall be available to all persons who work in DX Division Magazines.

6.4 Working Alone

Knowledgeable employees may go alone to magazines to inspect or transfer material. Details of the DX Division policy on working alone are given in the DX Division Operations Manual and in group specific SOPs. Maintaining communication is required. Do not use radios or cellular phones in the proximity of low energy EEDs.

6.5 Controlled Temperature

Temperature-controlled magazines have the required thermometer mounted inside, indicating the maximum and minimum temperatures that have occurred inside the magazine. Personnel entering the magazine should note the indicated temperature extremes and report the occurrence of temperatures outside the desired range of 60F to 90F to the magazine manager.

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6.6 **Permitted Operations**

Those operations incident to storage, or removal from storage, are permitted.

- Only one container of explosives shall be opened at one time in a magazine.
- The lids of containers may be opened and explosives inspected only for inventory purposes, if the packaging allows inspection without removal of the explosive, or extensive unpacking of inert contents.
- Handling of HE should be minimized.
- Explosives shall be kept in proper packaging, as specified by the DOE Explosives Safety Manual.
- Magazines shall be kept clear of extraneous equipment, components, fixtures, and the like that could interfere with handling operations. Aisles, corridors, and safety exits shall not be blocked.
- The mechanical stability of an item must be maintained at all times during storage, inventory, and addition or removal of containers.
- No hand or machine tools shall be used in a magazine except for use of scoops for surveillance samplings. Any opening, closing, or modification of containers will be done after removal of the container to a prep room or an outdoor area remote from the magazine.
- Lights and heaters in magazines are explosion-proof. No lights or heaters may be used in a magazine, except those already permanently installed there, without an SWP. In rare cases where there are electrical outlets in magazines, they are explosion proof (EP).
- Explosives will not be removed from their containers in magazines except for sampling.
- For removal of permanent fasteners, such as nails, screws, or metal banding, take the container to a preparation room or an outside area remote from the magazine in order to maintain proper Quantity/Distance relations.
- Adding appropriate liquids to adjust the liquid level for wet Group D explosives is allowed.
- Inspection and surveillance sampling of compatibility Group D and bulk propellants of Group C materials are permitted, provided each storage container sampled is in good condition.

6.6.1 Flammable liquids are prohibited in the magazines. Any exception will be covered under an SWP. Nitromethane and other liquid explosives listed as Allowable Explosives are considered explosives under the terms of this SOP.

6.6.2 No excess combustibles will be stored in a magazine. This includes empty packaging.

6.6.3 Non-DX personnel performing maintenance or custodial work in a magazine must be escorted by DX personnel. An SWP may be required for maintenance work. Removal of all explosives may be required for maintenance work. Sweeping the grit and sand from magazines will be done as needed by the regular users of the magazine, the Magazine Manager or Assistant Manager, using proper tools.

6.7 Signs

6.7.1 Fire Department

Octagonal orange signs bearing the number "1" shall be readily visible on the exterior of all magazines, or at the entrance to a fenced group of magazines ("magazine farm"). These signs warn that explosives are present, and no fire should be fought which involves a magazine.

6.8 Vehicles

Vehicle engines must be off when the magazine door is open. Private vehicles must approach no nearer than 100 feet to a magazine, unless a fire extinguisher is either on the vehicle or on the magazine, and the vehicle exhaust is equipped with a catalytic converter or spark arrestor.

6.8.1 Keep magazine doors closed when a LANL or DOT equipped vehicle with its engine running is within 8 m (25 ft) of the door.

6.9 Communications

6.9.1 Radio Communication

Handheld radios and mobile RF transmitters (e.g., cell phones) are generally allowed for use within the Explosives Firing Areas. However, in areas where low energy EEDs are stored, special control must be exercised.

Areas that are sometimes restricted:

- TA-22 Magazines and TA-22-34
- TA-40-5, -6, and -7
- TA-36-11 and -12, and other rocket-sled areas.
- TA-15-310

Whenever low energy EEDs are present, it shall be the responsibility of the DX operating personnel in the potentially restricted areas to inform the appropriate access control personnel that all RF transmitters in these areas are prohibited. Operating personnel will inform access control personnel in the TA-9 Group Office, TA-22 (DX-1) Group Office, the TA-15 Access Control Office, or the TA-39 Administrative Office, who will then restrict visiting personnel from using RF transmitters. Further, operators will place signs on all routine entrances to these areas informing personnel to turn off all RF transmitting devices before entering these areas. The operating personnel will assure that all personnel within the restricted area are informed of the prohibitions.

6.10 Lightning

Magazine operations shall be suspended and magazines shall be closed during electrical storms.

6.11 General

6.11.1 There shall be no smoking in or near magazines. No matches, lighters, or other fire, flame, or spark-producing devices shall be taken in or near magazines, except with written authorization (SWP).

6.11.2 Clearly label all containers to identify the contents.

6.11.3 Transport of HE will be in accordance with the DX Division SOP governing Packaging and Transport.

6.11.4 Explosives may be stored on shelves where provided, but shall be placed no more than 2 meters off the floor. Safely and securely position all explosives containers. Stacked explosives containers must be placed in stable arrays. Under normal circumstances, do not store explosives on the floor. When necessary, explosives in their protective containers may be stored on the floor or on ESA delivery carts. Leave a 1m aisle to the door and make sure containers do not crowd the magazine or prevent safe operations. Do not leave material suspended by booms, cranes, or hoists.

6.12 Inventory and Storage Review

6.12.1 When explosives are added to or removed from the magazine, update the inventory. Provide the information to the DX group member in charge of the explosives inventory for entry in the data base.

6.12.2 A physical inventory of all of DX Division magazines will be performed annually. Magazine contents will be reviewed for compliance with Storage Review Period provisions. The inventory will be checked against the magazine contents, against the HE Inventory database and records and storage review dates will be checked. During the inventory, magazines will be inspected to ascertain that they meet the conditions for storage.

6.12.3 A storage review date will be assigned to every bulk explosive placed in storage. This date will be listed in the inventory records.

6.12.4 Some materials such as propellant may require review more frequently than annually. Storage review and inspection for these materials will be scheduled accordingly.

6.12.5 Check and replenish the liquid level in storage containers for wet explosives at least once a year. Maintain a log of these checks.

6.12.6 Remove and destroy excess explosives and/or materials that cannot be properly identified.

6.13 Storage Containers

6.13.1 HEs or ECDs must be placed in appropriate containers prior to being stored in a DX Division magazine. The **sole exception** shall be for the temporary storage of experimental assemblies in a magazine with the approval of the Group Leader.

6.13.2 Except for liquid explosives such as FEFO, nitromethane, and hydrogen peroxide, no explosives shall be stored in primary containers with screw-threaded lids.

6.13.3 HE or ECD containers may only be opened within a magazine for purposes of inventory or inspection sampling. If the HE or ECD is to be handled or transferred to another container, **it must be removed** from the magazine and transported to a facility approved for this type of operation. Exceptions will be covered under a current SWP.

6.14 Access Control

6.14.1 For access to a magazine, an employee contacts the Magazine Manager or Assistant. If they cannot be reached, the employee can report to the Access Control Office or local Access Control Office and sign for a temporary key to the storage area. For TA-39 magazines, several knowledgeable employees in addition to the Magazine Manager have keys. These keys are kept in an administrative safe after hours, for access during emergencies. The keys to TA-40 and TA-22 magazines are available at the DX-1 Group Office, at TA-22. The Appropriate Group Leader may waive any of the requirements for access to any DX Division magazine under sufficient conditions.

All magazines shall be properly secured upon exiting. In the event that a magazine is found unsecured, notify the appropriate Magazine Manager, Security Officer, and Team Leader. Never leave a magazine unsecured, even if it was unsecured when you found it.

6.15 Low Energy EEDs

Low energy EEDs must have their electrical connections shorted when in storage or when being handled. See DX-1 SOP 175, "Manufacture, Handling, and Inspection of Low Energy EEDs" for further details.

6.16 Handling

6.16.1 Only authorized DX Division personnel may receive explosives.

6.16.2 Containers without permanent fasteners may be opened on the shelf outside of the wing vaults, one box at a time.

6.16.3 Manually handling explosives - Containers may be moved by hand under the following constraints:

- One person can handle up to 25 kg.
- Two people can handle up to 50 kg.
- For heavier charges or for any charge or container a person feels uncomfortable handling, two or more persons and/or mechanical aids (hand truck, etc.) shall be used in moving the HE parts or ECDs.

6.16.4 Handling Explosives by Crane or Forklift

• Any lift involving explosives is a high-consequence lift, and shall be performed only by certified operators (see Sec 14.4 and 16.1.4 of the DOE Explosives Safety Manual or DX-4 SOP, *Repetitive-Type High Consequences Lifts*).

6.17 Facilities

6.17.1 The footing where the storage or handling operation is conducted shall be adequate. Do not perform explosives-handling operations when magazine entrances are covered with ice or, for any reason, do not provide adequate footing.

6.17.2 Explosive storage areas shall have vegetation growth controlled by mowing at least 15 meters around the facility area to prevent rapid transmission of fire and to remove any tripping hazards which may be caused by vegetation growth.

6.17.3 Storage areas must be kept as clean as possible. Combustible materials such as packing material and empty boxes shall not be stored in these areas. A non-sparking dustpan, a bench brush, and a broom should be available for cleaning the floors and shelves.

6.17.4 Two fire extinguishers with a minimum rating of 2A:10BC should be available while in the magazine area. These extinguishers may be permanently located in the area or available on a vehicle. These extinguishers should be used only for small external or magazine fires where there is no immediate risk of involvement of explosives.

7.0 **PROCEDURAL STEPS**

N/A

8.0 **REQUIRED RECORDS**

Inventory/Transfer Forms Hazardous Material Transfer form MSDSs for explosives

9.0 **REFERENCES**

- DOE Explosives Safety Manual, DOE M440.1-1, Rev. 8
- DOD 6055.9 STD (October 1992)
- DX Division Building/Site Emergency Plans
- DX-4: SOP 03 General Safety
- DX-4: SOP 1.0 General Access Control
- DX-4: SOP 06 Repetitive Type-High Consequence Lifts
- DX DO: SOP 03 Packaging and Transportation of Explosives
- DX-1: SOP 175 Manufacture, Handling, and Inspection of Low Energy EEDs
- DX Division Operations Manual
- DX Division Training and Qualifications Manual
- Los Alamos National Laboratory Environment, Safety, and Health Manual, AR 6-2 and AR 6-6, Explosives, AR 10-3, Chemical, Hazardous, and Mixed Waste, AR 13-2, Cranes, Hoists, Lifting Devices, and Rigging, and AR 10-8.
- (ESA) WX-3 1.1.0

10.0 ATTACHMENTS

- Attachment 1. Explosives Storage Classes
- Attachment 2. HE Routinely Used at DX Division Firing Areas
- Attachment 3. DX Division Preparation Rooms
- Attachment 4. DX Division Magazine Personnel & HE Limits

ATTACHMENT 1

Explosives Storage Groups

| Group | Contents | Description |
|-------|-----------------------|---|
| | | |
| A | initiating explosives | Bulk initiating explosives that have the necessary sensitivity to friction, heat, or shock to make them suitable for use as initiating elements in an explosives train. Examples are lead azide, lead styphnate, mercury fulminate, and tetracene. |
| В | Detonators | Detonators and similar initiating devices not containing two or more independent safety features. Items containing initiating explosives that are designed to initiate or continue the functioning of an explosives train. Examples are detonators, (all types, excluding EBWs and slappers), blasting caps, small arms primers, and fuzes. |
| С | propellants | Bulk propellants, propellant charges, and devices containing propellants with or without their own means of initiation. Items that will deflagrate, explode, or detonate upon initiation. Example are single-, double-, triple-base, and composite propellants, rocket motors (solid propellant), and ammunition with inert projectiles. |

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| D | High Explosives | High Explosives (HE) and devices containing explosives without their own means of initiation and without a propelling charge, or articles containing a primary explosive substance and containing two or more effective protective features. This group shall include explosives and ammunition that can be expected to explode or detonate when any given item or component thereof is initiated. |
|---|--|--|
| Е | Ammunition and Rockets | Explosive devices without their own means of initiation and with propelling charge (other than one containing a flammable or hypergolic liquid). Examples are artillery ammunition and rockets. |
| F | Artillery shells and Bombs | Explosive devices with their own means of initiation and with or without propelling charge. |
| G | pyrotechnics | Pyrotechnic materials and devices containing pyrotechnic materials. Examples are devices that, when functioning, result in an incendiary, illumination, lachrymatory, smoke, or sound effect. |
| L | uncharacterized or none of the above | Explosives or ammunition not included in other compatibility groups that present a special risk requiring isolation of each type. This group shall include explosives or ammunition having characteristics that do not permit storage with other similar or dissimilar materials. Examples are damaged or suspect explosives devices or containers, explosives that have undergone severe testing, fuel/air explosive devices, and water-activated devices. Also included are experimental explosives, explosives of temporary interest, newly synthesized compounds, new mixtures and salvaged explosives |

| | | until they have been established to be compatible with the original materials. Types presenting similar hazards may be |
|---|-----------------------|--|
| | | stored together. |
| S | no significant hazard | Explosives, explosives devices, or ammunition presenting no significant hazard. Explosives or ammunition so designed or packed that, when in storage, all hazardous explosives effects are confined and self-contained within the item or package. An incident may destroy all items in a single pack, but must not be communicated to other packs. |

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ATTACHMENT 2

HE routinely used at DX Division Firing Areas NORMAL EXPLOSIVES

This list contains the names and identification numbers of all explosives and detonators approved for normal explosives operations. Only explosives on this list may be received or handled by DX Groups unless a separate SWP or SOP exists covering the operations, or a request for limited tests is approved.

• **Primary explosives** - Explosives with a sensitivity greater than PETN (for example, lead azide, lead styphnate or mercury fulminate) are not used by DX-Division except with specially approved procedures.

| Explosives | ESA-2 Mat. | Other Names, Composition, or Reference | Storage Rev. |
|-------------|---------------|--|-------------------------------|
| | Code | | Period |
| AN | 130LN | Ammonium nitrate | 20 years |
| DATB | 1201 | diaminotrinitrobenzene | 20 years |
| DINGU | | Dinitroglycouril | |
| DINA | | Di(nitroethyl) nitramine, dioxyethyl dinitrate | 20 years |
| EDNA | 1101 | ethylenedinitramine, Halite | 20 years |
| HMX | 03NN | cyclotetramethylenetetranitramine, | 20 years |
| | | Octogen | |
| LAX-112 | | · · · · · · · · · · · · · · · · · · · | |
| NM | | Nitromethane | 10 years in 55 gal drum |
| NQ | 07NN | Nitroguanidine, Picrite | 20 years |
| NTO | | 1.2.4-nitro-tiazole-5-one | |
| PETN | 06NN | pentaerythritoltetranitrate | 20 years |
| Picric Acid | | 1,3,5-trinitrophenol | 2 years |
| | | note: Picric acid forms impact-sensitive | |
| | | compounds with metal ions. | |
| RDX | 02NN | cyclo-1,3,5-trimethylene-2,4,6-trinitramine; | 20 years |
| | | Hexogen, Cyclonite | |
| TATB | 1701 | 1,3,5-triamino-2,4,6-trinitrobenzene | 20 years |
| Tetryl* | 04NN | 2,4,5-trinitrophenylmethylnitramine | 20 years |
| HNS | 3001 | Hexanitrostilbene | 20 years |
| TNT | 010N | 2,4,6-trinitrotoluene; Trotyl | 20 years |

SINGLE-COMPONENT EXPLOSIVES

* Tetryl has greater toxicity and greater sensitivity to electric spark than the other permitted explosives

LIQUID EXPLOSIVES

| Explosive | ESA-2 Mat. Code | Other Names, Composition, or Reference | Storage Rev. Period |
|--------------|-----------------------|--|-------------------------------|
| FEFO | | 1,1'-[methylene bis(oxy)]bis[2-fluoro-2,2- dinitroethane] | 90 days |
| Nitromethane | | NM, see also under single-component explosives | 10 years in 55 gal drum |
| H_2O_2 | | Stored at TA-40-40T only | 5 years |

MIXED EXPLOSIVES INCLUDING CAST AND PRESSED FORMULATIONS

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| Explosives | ESA-2 Mat. Code | Other Names, Composition, or Reference | Storage Rev. Period |
|------------|-----------------------|---|---------------------------|
| ANFO | | Ammonium nitrate/fuel oil | 90 days |
| Boracitols | | 60 wt% boric acid/40 wt% TNT | 20 years |
| Baratol | 76NN | 76 wt% barium nitrate/24 wt% TNT | 20 years |
| Calcitol | | 40 wt% TNT/55-60 wt% CaCO ₃ /0-2 wt% | 90 days |
| | | talc/1–2 wt%, microballoons, X-0533 | |

MIXED EXPLOSIVES INCLUDING CAST AND PRESSED FORMULATIONS, Continued

Plastic Bonded Explosives - Formed from one or more of the explosive compounds listed individually in "Single-component Explosives," above, mixed with binders and, in some cases, nonexplosive ingredients. Production forms of plastic bonded explosives are identified in numbered series denoted by the letter "PBX" (originated by Los Alamos); "LX" (originated by Lawrence Livermore); "EDC" (originated by the United Kingdom); and "PBXN" (originated by the US Navy). Also permitted are experimental plastic bonded formulations originated at Los Alamos and identified by the prefix "X-" and a four-digit number.

| CH-6 | | 97.5 wt% RDX/1.5 wt% calcium | 20 years |
|-----------|------|--|----------|
| | | stearate/0.5 wt% polyisobutylene/0.5 wt% | |
| | | graphite | |
| Comp. A | | | |
| Comp. A-2 | | | |
| Comp. A-3 | 9085 | 9085, 91 wt% RDX/9 wt% beeswax | 20 years |
| Comp. A-4 | | 97 wt% RDX/3 wt% beeswax | 20 years |
| Comp. A-5 | | 98.5 wt% RDX/1.5 wt% beeswax | 20 years |
| Comp. B | 60NN | 64 wt% RDX/36 wt% TNT, Comp B, | 20 years |
| - | | Hexolite, Hexotol | |
| Comp. B-3 | 60NN | 60 wt% RDX/40 wt% TNT | 20 years |
| Comp. C-3 | 9080 | 9080, 88 wt% RDX/12 wt% wax | 20 years |
| Comp. C-4 | 9081 | 9081, 91 wt% RDX/2.1 wt% | 20 years |
| - | | polyisobutylene/ 1.6 wt% motor oil/5.3 | |
| | | wt% di(2-ethylhexyl) sebacate | |
| Cyclotol | 750N | 75 wt% RDX/25 wt% TNT | 20 years |
| 75/25 | | | |
| Cyclotol | 700N | 70 wt% RDX/30 wt% TNT | 20 years |
| 70/30 | | | |
| Detasheet | 6300 | 63 wt% PETN/8 wt% NC/29 wt% | 10 years |
| C | | elastomeric binder | |
| Detasheet | 6301 | 75 wt% PETN/25 wt% elastomeric binder | 10 years |
| D | | NOTE: THIS MATERIAL IS USUALLY RED, BUT | |
| | | IT IS AN EXPLOSIVE, NOT AN INERT | |
| EDC-8 | | 76.0 wt% PETN/24.0 wt% RTV Silicone | 20 years |
| EDC-28 | | 94wt% RDX/6 wt% FPC 461 | 20 years |
| | | | |
| EDC-32 | | 85wt% HMX/15 wt% Viton A | 20 years |
| EDC-37 | | 91wt% HMX/8 wt% K10/1 wt% NC | 20 years |
| EDC-38 | | | 20 years |

| HBX-1 | | 40 wt% RDX/38 wt% TNT/17 wt% A1/4.5 | 20 years |
|----------|------|---|----------|
| | | wt% wax/ 0.5 wt% CaCl, | |
| LX-04 | LX04 | 85.5 wt% HMX/15.0 wt% Viton | 20 years |
| LX-07 | LX07 | 90 wt% HMX/10 wt% Viton | 20 years |
| LX-10 | LX10 | 95.0 wt% HMX/5.0 wt% Viton A | 20 years |
| LX-14 | LX14 | 95.5 wt% HMX/4.5 wt% Estane 5702-F1 | 20 years |
| | | (X-0282) | |
| MDF | | Mild Detonating Fuse | 20 years |
| Nonel | | RDX lined metal tubing & HMX lined | 20 years |
| | | metal tubing | |
| Octogen | | 94.5 wt% HMX/4.5 wt% wax/1 wt% | 20 years |
| | | graphite | |
| Octol | 740N | 75 wt% HMX/25 wt% TNT | 20 years |
| PBX 9001 | 9001 | 90 wt% RDX/8.5 wt% polystyrene (PS)/ | 20 years |
| | | 1.5 wt% dioctyl phthalate (DOP) | |
| PBX 9007 | 9007 | 90 wt% RDX/9.1 wt% polystyrene (PS)/ | 20 years |
| | | 0.5 wt% dioctyl phthalate /0.4 wt % resin | |
| PBX 9011 | 9011 | 90 wt% HMX/10 wt% Estane-5703 | 20 years |
| PBX 9205 | 9205 | 92 wt% RDX/6 wt% polystyrene (PS)/ | 20 years |
| | | 2 wt% dioctyl phthalate (DOP) | |
| PBX 9206 | 9206 | 92 wt% HMX/8 wt% Kel-F elastomer | 20 years |
| PBX 9010 | 9010 | 90 wt% RDX/10 wt% Kel-F 3700 | 20 years |

MIXED EXPLOSIVES INCLUDING CAST AND PRESSED FORMULATIONS, Continued

Total Spices

| PBX 9404 | 9404 | 94 wt% HMX/3 wt% NC/3 wt% tris(b- | 1st period- |
|----------|------|---|-------------|
| | | chloroethyl) phosphate (CEF) | 20 years, |
| | | note: PBX-9404 is unusually sensitive to | 10 years |
| | | certain types of impact, in particular, skidding. | thereafter |
| PBX 9401 | 9401 | 94.2 wt% RDX, 3.6 wt% polystyrene, | |
| | | 2.2 wt% trioctyl phosphate | |
| PBX 9405 | 9405 | 93.7 wt% HMX, 3.15 wt% nitrocellulose, | 20 years |
| | | 3.15 wt% trichloroethyl phosphate | |
| PBX 9407 | 9407 | 94 wt% RDX/6 wt% Exon-461 | 20 years |
| PBX 9501 | 9501 | 95 wt% HMX/2.5 wt% Estane/2.5 wt% | 20 years |
| | | BDNPA and BDNPF, X-0242 | |
| PBX 9502 | 9502 | 95 wt% TATB/5 wt% Kel-F 800, X-0290 | 20 years |
| PBX 9503 | 9503 | 80 wt% TATB, superfine/15 wt% HMX/5 | 20 years |
| | | wt% Kel-F, X-0351 | |
| PBXN-5 | | See LX-10 | 20 years |
| PBXN-9 | | 92.0 wt% HMX | 20 years |
| | | 2.0 wt% Hycar 4454 (Hytemp 4454) | |

| | 1 | 6.0 wt% dioctyl adipate (DOA) | - |
|-----------|--------|---|----------|
| PRYN-110 | | 88 wt% HMX /54 wt% polybutadiene /5 | 20 years |
| 10/11-110 | | wt% isodecyl pelargonate | 20 years |
| PBXW-113 | | See PBXN110 | |
| Primacord | | Assorted PETN & RDX loaded commercial | 20 years |
| Pentolite | 5001 | 50 wt% PETN/50 wt% TNT | 20 years |
| Tritonal | 0001 | 80 wt% TNT/20 wt% aluminum powder | 20 years |
| X-0208 | X-0208 | See XTX-8004 | 20 years |
| X-0233 | X-0233 | 5-40 wt% HMX; 40-95 wt% tungsten, 0-10 wt% polystyrene, 0-5 wt% plasticizer | 90 days |
| X-0242 | | See PBX 9501 (weight percentages differ) | 20 years |
| X-0282 | X-0282 | See LX-14 | 20 years |
| X-0290 | X-0290 | See PBX 9502 | 20 years |
| X-0309 | X-0309 | 75% TNT, 19% aluminum powder, 5% D-2 wax, 1% acetylene black (carbon) | 90 days |
| X-0351 | | See PBX 9503 | 20 years |
| X-0407 | X-0407 | 69.8 wt% TATB, 25.0 wt% PETN, 0.2 wt% dye, 5 wt% Kel F-800 | 90 days |
| X-0533 | X-0533 | See Calcitol | 90 days |
| X-0534 | X-0534 | 50 wt% TNT/16–24 wt% CaCO ₃ /25–33 wt% talc/1–2 wt% microballoons | 90 days |
| XTX-8003 | | 80 wt% PETN/20 wt% Sylgard 182 | 20 years |
| XTX-8004 | | 80 wt% RDX/20 wt% Sylgard 182, formerly X-0208 | 20 years |

PROPELLANTS

| Explosives | ESA-WMM Mat. Code | Other Names, Composition, or Reference | Storage Rev Period |
|-----------------------------|----------------------|--|--|
| Black powder | | Standard commercial and military grades only | 20 years if unopened, 2 years if opened |
| Benite | | Black powder based mixture | 2 years |
| Commer- cial sporting | | Any commercially available smokeless gun propellant for sport use is approved | 20 years if unopened, 2 years if opened |
| HARP-1,-2 | | HARP propellants are Al/AP/HMX composites | 2 years |
| HELP-1, -2 | | HELP propellants are NC/NG/HMX composites | 2 years |

| Smokeless | Standard military grades. Single or multi- | 2 years |
|-------------|---|---------|
| Powder | perforated grains of colloided NC. Stabilizers, | |
| Single, | plasticizers, inorganic nitrates, and other | |
| Double, or | modifying agents may also be present. | |
| Triple Base | Military research explosives are specifically | |
| | not included. | |
| UTP 25540 | HMX based High Energy Propellant | 2 years |

DETONATORS

The following high-energy detonators have been approved for DX use in test devices. All listed detonators have a storage review period of 20 years.

| pression and the second s | | |
|--|----------|---------------------------------------|
| 1E23 | ER-353 | RP-1 |
| 1E26 | ER-370 | RP1/31 |
| 1E26B | ER-371 | RP-2 |
| 1E27 | ER-377 | RP-80 |
| 1E29 | ER-379 | RP-83 |
| 1E30 | ER-380 | RP-84 |
| 1E31 | ER-383 | RP-87 |
| 1E33 | ER-396A | SE-1 |
| 1E34 | ER-396B | SE-1/31 |
| 1E36 | ER-400 | SC-101 |
| 1E38 | ER-402 | |
| 1E38 T.F. | ER-403 | |
| ER-213 | EX-12 | |
| ER-235 | EX-12B . | · · · · · · · · · · · · · · · · · · · |
| ER-312 | MC1991 | |
| ER-312B | MC2320 | |
| ER-344 | MC2427 | |
| ER-347 | MK13C | |
| ER-349 | MK20 | |
| ER-350 | MK22A | |
| ER-351 | RL1 | |
| ER-352 | RL2 | |

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MUNITIONS

Military munitions are allowed if no further assembly or disassembly operations are involved. An adequate description should be kept in the DX-4 file. Internal devices that contain primary explosive are allowed if they are "out-of-line" and are not used as the initial initiation point. The initiator must remain in a safe state until the first ignition source is activated following standard operating procedures. Any configuration where the primary explosive unit is external or is to be used as the first initiation or ignition source becomes a special operation requiring a separate SOP or SWP.

Some of the DX-4 military munitions are listed as rejects or defective lots because they do not meet either physical specifications or performance testing specifications. There are no safety issues related to their rejection. Any arriving munitions marked as rejects will be treated as Storage Compatibility Group L until the reason for rejection is known.

SPECIAL EXPLOSIVES

The use of these explosives is limited to the provisions of the indicated SOPs.

| Explosive | Pertinent SOP References | Storage Rev. Period |
|----------------|--------------------------|---------------------|
| Liquid Gun | DX-11 SOP: 15-11-4.20, | 2 years |
| Propellant | "LGP 1846, TA-36-3" | 5 |
| LGP 1846 | | |
| 3E-1 Detonator | 3E-1 SWP | 20 years |

COMPOUNDS FOUND in TA-16 SOP 1.1.0, "Established Explosives at TA-16,"

but not listed in any DX Division list.

Al-ANFO

BDNPA

BDNPF

BTX (5,7-dinitro-1-picrylbenzotriazole) (transportation only)

DNPA (2,2-dinitropropyl acrylate polymer)

DNT

 $\widehat{M}_{0} : \mathbb{Q}_{1}$

HBX-1

Methane/ Oxygen mixtures

Nitrocellulose (NC)

PYX (2,6-Bis(picrylkamino0-3,5-dinitropyridine

STRATABLAST C (storage and transportation only)

TAGN (triamino guanadine nitrate)

TAL-1005E (storage and transportation only)

TNS (Trinitrostilbene)

TNT/NC

TPM (tripicryl melamine)
ATTACHMENT 3

DX Division Preparation Rooms

Location of charge preparation rooms at TA -15 and TA-36:

Building TA-15-242

Building TA-36-4, Room A, serves Eenie Site

Building TA-36-5, Room A, serves Meenie Site

Building TA-36-7, Room A, serves Minie Site

Building TA-36-11, Room A, serves Lower Slobbovia

Building TA-36-82, Daisy Mae-Kup

Assembly and preparation areas at TA-40:

Building TA-40-14 serves Firing Chamber 15 and 8

Building TA-40-11 Room 106 administered by DX-1 as part of crystal growing operation at TA-40-12

Building TA-40-6 serves Firing Chamber 5

Building TA-40-41 serves Firing Chamber 4 and 8 and miscellaneous large shots

Building TA-40-3 is administered by DX-1, as a part of gas gun operations.

The assembly and preparation area at TA-14 Q Site is

Building TA-14-23 Room 104.

Test preparation facilities at TA-39 are:

Building TA-39-4 trim shack Building TA-39-111 test assembly building

Building TA-39-77 propellant assembly for gas guns is administered by DX-1.

ATTACHMENT 4

| structure | load limit | load limit | personnel | compatibility |
|----------------|------------|------------|-----------|---------------|
| | (kg) | (lbs) | limit | group |
| TA-9-22 | 11.3 | 25 | 3 | C,D,E,F,G |
| TA-9-23 | 11.3 | 25 | 3 | A,B |
| TA-9-24 | 11.3 | 25 | 3 | L |
| TA-9-25 | 11.3 | 25 | 3 | A,B |
| TA-9-26 | 11.3 | 25 | 3 | L |
| TA-9-27 | 11.3 | 25 | 3 | C,D,E,F,G |
| TA-9-36 | 454 | 1000 | 3 | C,D,E,F,G |
| TA-9-39 | 329 | 725 | 3 | C,D,E,F,G |
| TA-9-44 | 454 | 1000 | 3 | C,D,E,F,G |
| TA-9-47 | 454 | 1000 | 3 | C,D,E,F,G |
| TA-9-49 | 318 | 700 | 3 | C,D,E,F,G |
| TA-9-51 | WAREHOUSE | | N/A | N/A |
| BONDED STORAGE | STORAGE | | | |
| TA-9-52 | 340 | 750 | 3 | A,B |
| TA-9-53 | 455 | 1000 | 3 | C,D,E,F,G |
| TA-9-54 | 909 | 2000 | 3 | D |
| TA-9-55 | 2273 | 5000 | 3 | D |
| TA-9-208-A | 4.5 per | 10 per | 3 | C,D,E,F,G |
| | cubicle | cubicle | | |
| ТА-9-208-В | 4.5 per | 10 per | 3 | D |
| | cubicle | cubicle | | |
| ТА-9-208-С | 4.5 per | 10 per | 3 | L |
| | cubicle | cubicle | _ | - |

. W.,.... Explosives Load and Personnel Limits at TA-9 Magazines (DX-2)

| structure | load limit | load limit | personnel limit | Compatibility |
|---------------|------------|------------|-----------------|---------------|
| | (kg) | (lbs) | | group |
| TA-14-22 | 136 | 300 | 2 | C,D,E,F,G |
| TA-14-23 Wall | .45 | 1 | 2 | В |
| TA-14-24 | 11.3 | 25 | 2 | C,D,E,F,G |
| TA-14-30 | 45 | 100 | 3 | C,D,E,F,G |

Explosives Load and Personnel Limits at TA-14, Q-Site Magazines (DX-2)

Explosives Load and Personnel Limits at TA-15 Magazines

| | load | limit | | | |
|-------------------------------|--------------------|---------------------|--------------------|---|------------------------|
| structure | (kg) | (lbs) | personnel limit | notes | Compatibility Group |
| TA-15-41 | 91 (propellant) | 200 (propellant) | 2 | 3 rooms, 2 storage and 1 preparation room | C |
| TA-15-42 wing vault | 1272 | 2800 | 4 | | D |
| TA-15-43 (2) Wing Vault | 909 1000 dets | 2000 1000 dets | 3 | | D |
| TA-15-241 | 681 | 1500 | 3 | | L |
| TA-15-243 | 1363 · | 3000 | 3 | | D |

Explosives Load and Personnel Limits at TA-22 Magazines

| | load limit | | | |
|-----------|------------|-------|-----------------|---------------------|
| structure | (kg) | (lbs) | personnel limit | compatibility group |
| TA-22-07 | 2.00 | 4.41 | 2 | В |
| TA-22-08 | 2.00 | 4.41 | 2 | В |
| TA-22-09 | 2.00 | 4.41 | 2 | D |
| TA-22-10 | 3.50 | 7.72 | 2 | Α |
| TA-22-11 | 3.50 | 7.72 | 2 | D |
| TA-22-12 | 10.00 | 22.05 | 2 | D |
| BONDED | | | | |
| STORAGE | | | | |
| TA-22-14 | 0.40 | 0.88 | 2 | Α |
| TA-22-15 | 2.00 | 4.41 | 2 | В |
| TA-22-16 | 45.00 | 99.00 | 2 | D |

| TA-22-17 | 100.00 | 220.00 | 2 | D |
|--------------|--------|---------|-----------------|---------------------------------------|
| TA-22-18 | 175.00 | 385.00 | 2 | D |
| TA-22-19 | 250.00 | 550.00 | 2 | Α |
| TA-22-20 | 300.00 | 660.00 | 2 | D |
| TA-22-21 | 250.00 | 550.00 | 2 | D |
| TA-22-22 | 300.00 | 660.00 | 2 | D |
| TA-22-23 | 500.00 | 1100.00 | 3 | Α |
| BONDED | | | | |
| STORAGE | | | | |
| TA-22-24 | 150.00 | 330.00 | 2 | A |
| | load | limit | | |
| structure | (kg) | (lbs) | personnel limit | compatibility group |
| TA-22-39 | 0.10 | | 4 | N/A |
| ROOM 107-108 | | | | |
| TA-22-69 | N/A | N/A | N/A | N/A |
| TA-22-96-1 | 2.54 | 5.9 | 4 | A |
| TA-22-96-2 | 2.54 | 5.9 | 4 | D |
| TA-22-96-3 | 2.54 | 5.9 | 4 | <90 / L |
| TA-22-96-4 | 2.54 | 5.9 | 4 | D |
| TA 22.06 5 | | | | · · · · · · · · · · · · · · · · · · · |

Explosives Load and Personnel Limits at TA-36 Magazines

| | load | l limit | | | |
|---|------|---------|-----------------|---|------------------------|
| structure | (kg) | (lbs) | personnel limit | notes | compatibility Group |
| TA-36-4, west end Eenie magazine | 454 | 1000 | 5 | Magazine | D |
| TA-36-7, south end Minie Site magazine | 1000 | 2200 | 5 | Magazine | D |
| TA-36-9 DetMoe | 363 | 800 | 2 | Only Storage Compatibility Group D detonators, booster pellets, and Group B explosives | D B |
| TA-36-10 Moe | 3181 | 7000 | 5 | No explosives may be examined, nor boxes moved when more than three | D |

| | | and the second | | | |
|----------------|---------|--|---|---------------------|---|
| | | | | persons are present | |
| | | | | in the magazine. | |
| TA-36-11, | 1000 | 2200 | 5 | primarily used for | С |
| south end | | | | LGP | |
| Lower | | | | storage | |
| Slobbovia | | | | • | |
| TA-36-83 | 9,091 | 20,000 | 7 | No explosives may | D |
| Promoe | | | | be examined, nor | |
| | | | | boxes moved when | |
| | | | | more than five | |
| | | | | persons are present | |
| | | | | in the magazine. | |
| TA-36-83 | 1002 | 2205 | 2 | Up to 12 kg of | D |
| Promoe side | each | each | | compatibility Group | |
| rooms (2) | part of | part of | | L material may be | |
| | 70,454 | 155,323 | | separately stored | |
| | total | total | | temporarily in each | |
| | | | | of the side rooms. | |
| TA-36-205 | 451 | 992 | 3 | "Q-45" formerly | E |
| Ammunition | | | | 14-45 | |
| transportainer | | | | | |
| TA-37-13 | 18,144 | 39,916 | 3 | | D |

Explosives Load and Personnel Limits at TA-39 Magazines

| BUILDING | EXPLOSIVES load limit | | PERSONNEL | COMPATIBILITY GROUP |
|-------------|--------------------------|-------|-----------|------------------------|
| | kg | lbs | | |
| TA-39-3 | 2727 | 6,000 | 4 | D |
| TA-39-5 | 1000 | 2,200 | 4 | D |
| Vaults/each | 4.5 | 10 | | |
| TA-39-77 | 136 | 300 | 2 | C |
| (DX-1) | | | | |

| | Load | limit | ······································ | |
|-----------------|------|--------|--|--|
| structure | (kg) | (lbs) | personnel limit | compatibility |
| | | | | group |
| TA-40-2 | 363 | 800 | 3 | L |
| wing vault | 2.0 | 4 | | A |
| TA-40-7 | 2.3 | 50 | 4 | D |
| wing vault | 2.0 | 4 | | |
| TA-40-10 | 1.0 | 2.2 | 3 | A |
| (DX-1) | | | | |
| TA-40-13 | 681 | 1500 | 3 | D |
| wing vault | 2.0 | 4 | | |
| TA-40-36 | 409 | 900 | 3 | D |
| TA-40-37 | 409 | 900 | 3 | D |
| TA-40-38 | 681 | 1500 | 3 | D |
| TA-40-39 (DX-1) | 57 | 126 | 3 | D |
| TA-40-40 | 2727 | 6000 | 4 | D |
| TA-40-40T | | 55 gal | N/A | Only H_2O_2 is allowed to be stored here |

Explosives Load and Personnel Limits at TA-40 Magazines

w......

a.,

DX-4

STANDARD OPERATING PROCEDURE

FOR

GENERAL ACCESS CONTROL

SOP 1.0

| Prepared by: | $\overline{J_{2^{-}}}$ A. Lopez, DX-4 | Date: |
|-----------------|---|------------------|
| Prepared by: | J <u>.</u> - V. Lujan, DX-4 | Date: |
| Approved by: | G D. Vasilik, DX-4 ES&H Officer | Date: |
| Approved by: | J ₂₇ M. McAfee, DX-4 Group Leader | Date: |
| ÷ | | |
| Approved Revie | ewed by: | Date: |
| | A ₁ - L. Cucchiara, ESH Deployed Team Lead | der, DX-FMST/RSO |
| Approved by . | | Date |
| rippio vod by . | C M. Montoya, DX-DO Operations Coord | inator |
| | Controlled Document Number: | |

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It is strictly forbidden to pass any barricade, closed gate, roadblock, or warning sign.

<u>Visitors encountering any of these access restrictions should return to the</u> <u>Access Control Office or Local Access Office or wait until the restriction is</u> removed by the cognizant Firing Leader or designee.

Only the Firing Leader may grant permission to remove any such restriction. This permission can be granted only through direct verbal contact (includes radio and telephone). Visitor escorts will explicitly inform their charges of the acquired permission and the circumstances of its granting.

<u>Travelers in the Firing Areas should check with the Access Control Office or the Local Access Office before traveling.</u>

1.0 INTRODUCTION

Access Control prevents people from accidentally being in the vicinity of an explosives test or other hazardous operation such as radiography, by imposing physical barriers and administrative restrictions. DX Division personnel conduct test-firing operations involving explosives at DX Division firing sites at TA-14, TA-15, TA-36, TA-39, and TA-40. All personnel must be assured of a safe working environment while they are in the DX Division firing areas.

2.0 PURPOSE

This Standard Operating Procedure (SOP) describes the general precautions and procedures for administering access to the DX Division firing areas.

3.0 SCOPE

This SOP applies to all individuals who require access to firing areas of TA-14, TA-15, TA-36, TA-39 and TA-40. Maps and site descriptions are given <u>inas</u> Attachment 1.

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This SOP does not describe detailed area Clearance Procedures conducted at each Firing Site. Clearance Procedures are described in DX-4 General Firing Operations and Site-specific SOPs.

4.0 **DEFINITIONS**

| Access Control: | Access Control is governed by three four Access Control Offices. The Access Control Office in TA-15-446 administers access into firing areas at TA-15, TA-36, and TA-39, and oversees the exchange badge process and controls visitor access into these firing areas. Access to TA-40 is administered by the DX-1 Group Office at TA-22-90. Access to TA-14 is via the DX-2 Group Office at TA-9-21. Access to TA-39 is handled through the Administrative Office at TA-39-2. Access control can also be handled through TA-15-446 if no one is in the TA-39 office. |
|-----------------------|--|
| Access Gates: | Gates or chains that can be locked. The keys are administratively controlled by the Access Control Office and Local Access Offices. |
| Perimeter Gate: | A gate at the Boundary of the explosives buffer area. The keys are administratively controlled by the Access Control Office at TA-15-446. |
| A gate at the boundar | ry of the explosive buffer area. Keys are kept in the Access Control Office at TA-15-446. |
| Safety Gate: | A gate that marks the entrance to a Firing Point. The last gate $\underline{b}\overline{b}e$ fore hazard is encountered, the safety gate may be interlocked. |
| Area K-I: | Encompasses Kappa Site (TA-36), and the northern part of R-Site (TA-15) mesa east of the safety fence. |
| Area III: | Encompasses the south leg of R-Site mesa where the R310 firing site is located. It includes all of the mesa leg east of the North-South-running safety fence with the north, east, and south bounded by canyon rims. |
| Barricade: | A portable device, such as a sawhorse, with an appropriate sign, used to halt traffic into an area that is hazardous or is about to become hazardous. |
| Clearance Plans: | Procedures that protect personnel within the firing areas by controlling access during explosive experiments, radiographic operations, or other potentially hazardous operations. The level of the clearance plan determines the control procedures to be followed, and the extent of the cleared area. |
| Cleared Area: | An area that has been physically patrolled by a person performing assigned duties, and/or an area in which all personnel have been |

| General Access Control | |
|---|--|
| | Page 5 of 110 |
| accounted for. A Cleared Area has been declared sat operations to proceed. | fe for firing |
| During hazardous operations, an <u>safety</u> escort is defi- —Knowledgeable Person, who is familiar with pro- operations in the firing areas and who assumes respo for the safety of assigned visitors at the firing site. <u>A</u> Security During non <u>firing operation</u> | ined as a cedures and nsibility |
| personaccompanying non-Q-cleared person in secure areas. | a |
| The areas where firing operations are conducted. Ac areas is controlled, and is through an Access Gate. T Area K-I, Area III, TA-40 Firing Area, TA-39 Firing TA-14. | cess to these 'hese areas are Area, and |
| The actual location of an explosive test and its excluse behind the appropriate safety gate. | sion area |
| A full-time DX Division employee, authorized by DX-4 line nanagement to supervise, conduct, and be responsible for operations at the site of the test. This person's accumulated cnowledge and experience are crucial to all explosives firing operations. | |
| <u>A person, authorized by the DX-4 Group Lea</u> <u>Designee deemed eligible for a pictured exchange basicess key because of specified training and experient uthorization is recorded in the Authorizations and A</u> <u>Document. All other personnel are visitors. All requirements must be opefore authorization as a knowledgeable person or entssigned. A designation as a knowledgeable person or entssigned. A designation as a knowledgeable person or licensi example: operating cranes or forklifts, or handling H</u> <u>lesignated by the DX 4 Group Leader or Designee, operating cranes or forklifts, or handling H</u> <u>lesignated by the DX 4 Group Leader or Designee, operating are visitors. All required reading, instraining, and OJT requirements must be completed exchange badge where required exchange badge where required exchange badge where required because of specified training and experience.</u> | ader or dge or area ice. This issignments ired reading, completed nployee is or employee roperations in ng (for <u>E).A person,</u> leemed - All other itutional ed before hese |
| | General Access Control accounted for. A Cleared Area has been declared sat operations to proceed. During hazardous operations, at safety escort is def —Knowledgeable Person, who is familiar with pro- operations in the firing areas and who assumes respon for the safety of assigned visitors at the firing site. A SecurityDuring non |

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DX-4: SOP 1.0 Revision AOriginal

| Local Access | | |
|----------------------------|---|--|
| Office: | Access to TA-14, TA-39, and TA-40 is governed by Local Access Offices at TA-9, TA-39, and TA-22, respectively. These offices supplement the duties of the Access Control Office at TA-15-446. | |
| Radiological Contro | 1 | |
| Technician (RCT): | An ESH-1 Employee who is DOE certified to perform and document radiological surveys according to specified Laboratory and DOE procedures. A specialist who monitors personnel, equipment, or firing sites for radioactivity, and documents the results. | |
| Roadblock: | A roadblock is established by having a DX Division employee or trained Knowledgeable Person (Clearance Patrolman) in the road to stop traffic. The roadblock may be an employee with a radio, or an employee with a radio and a vehicle. This person maintains contact with the Firing Leader and the Access Control Office as necessary. The roadblock may be a barricade in the center of the road with a sign stating that hazardous operations are in progress. | |
| Safety Fence: | A fence placed to indicate a separation of areas, usually a supplement to, and continuation of, a safety gate or an access gate. | |
| TLD Badges: | Thermoluminescent Dosimeter - A dosimeter which is in the form of a badge, intended to record the radiation dose received by the whole body of the wearer. | |
| Visitor: | A person in a firing area who has not met the requirements for a "Knowledgeable Person." | |
| | Escorted - Visitors who have not received site-specific training or are unfamiliar with operations, or who lack a Q ₋ -clearance, and are escorted into firing areas. | |
| | Unescorted - A visitor who has received site-specific access orientation, and/or any required training, and a Visitor's Badge, and may be in a firing area unescorted when no firing operations are in progress. | |
| Visitor's Badge | | |
| (V Badge) : | A badge bearing a "V" instead of a picture, to be given to <u>Q-cleared</u> visitors who are not knowledgeable in local operations and procedures, but have received site-specific training. | |

5.0 **RESPONSIBILITIES**

5.1 Knowledgeable Person

- Responsible for safety and security of firing operations.
- Responsible for ensuring that access control and clearance procedures are properly conducted.
- Accepts personal ownership of working areas.
- In case of ES&H concerns, takes personal responsibility to see that proper actions are requested and implemented.
- May escort visitors.

5.2 Firing Leader

- Determines who is allowed access during firing or other hazardous operations.
- Oversees the safety of personnel, equipment, and facilities at the firing site.

5.3 Access Control Officer

- Administers personnel access into firing areas, and manages exchange badges where they are used.
- Verifies that requirements for visitor access are met. Maintains visitor access documents and records.
- Participates in clearance procedures as appropriate. Interacts with Firing Leader for firing operations.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Clearance Plans

Clearance Plans have been developed to protect personnel within the firing areas. Clearance Plans are specified for explosives firing operations, for radiographic operations or pulsed-power operations, or for experiments that may release toxic material.

For specific details of clearance plans, see Area-specific SOPs for Clearance and Firing Operations.

It is strictly forbidden to pass any barricade, closed gate, roadblock, or warning sign. Visitors encountering any of these access restrictions should return to the Access Control Office or Local Access Office or wait until the restriction is removed by the cognizant Firing Leader or designee.

Only the Firing Leader may grant permission to remove any such restriction. This permission can be granted only through direct verbal contact (includes radio and telephone). Visitor escorts will explicitly inform their charges of the acquired permission and the circumstances of its granting.

<u>Travelers in the Firing Areas should check with the Access Control Office or the</u> <u>Local Access Office before traveling.</u>

It is strictly forbidden to pass any barricade or roadblock. Visitors encountering these should return to the Access Control Office or Local Access Office or wait until the restriction is removed. Travelers should check with the Local Access Office before starting.

6.2 Smoking, Matches, and Flame-Producing Devices in Firing Areas

- Matches and lighters must be left at the Access Control Office at TA-15-446TA-15-183 or at the local offices at TA-9, TA-22, and TA-39 as appropriate.
- No one may take matches, lighters, or other flame-producing devices into the firing areas. Matches and lighters must be left at the Access Control Office at TA 15 446 or at the local access offices at TA 9, TA 22, and TA 39 as appropriate.
- Exceptions are discussed in DX-4 SOP <u>03</u> General Safety.

6.3 Fire Department Notices

- Fire Department notices for Firing Operations are given by the Access Control Office at TA-15-446, for every firing site.
- Fire Department access procedures are specific to individual firing sites and are discussed in Site-specific SOPs.

7.0 **PROCEDURAL STEPS**

7.1 General Access Requirements

• Access Control Personnel administer access into the firing areas. They instruct visitors on site hazards, make arrangements for enhanced visitor training for off-road access, oversee visitor orientation, and issue the required exchange and dosimetry (TLD) badges. Access Control Personnel appropriate matches, lighters, and other flame-producing items. Access Control Personnel may issue radios or cell phones to

visitors who might otherwise be out of communication with firing site staff, allowing personnel in firing areas to be located or warned when firing or other hazardous operations are about to begin.

- Access to TA-15 and TA-36- sites is via the Access Control Office, located at TA-15-446. TA-40 Firing Sites are administered by the DX-1 Group Office at TA-22-90. Access to TA-14 is via the DX-2 Group Office at TA-9-21. Access to TA-39 firing site is administered by the TA-39 Administrative Office.
- Safety orientations will be given to all visitors entering Firing Areas, to inform them of special rules. Details may vary from area to area. The orientation need only be given once a year to each particular visitor, but may be requested at any time. The visitor's register is signed for every entry and exit. Access Control personnel will retain records of orientation.
- Fire department access to firing areas must be controlled to avoid exposing the firemen to explosive hazards, but access must be rapid in case of a fire. The Access Control Office at TA-15-446 will communicate with and advise the Fire Department when they are needed, and arrange for access to be available and safe. Access Control at TA-15-446 will be notified of all emergency Fire Department activities.
- Exchange badges are issued by Access Control Personnel to personnel crossing certain boundaries. Exchange badge systems may serve a variety of functions; badges may be used as a counting system to locate personnel, they may serve as a token that specific training has been received or RADCON requirements have been met, or they may bear necessary keys, and denotindicates who has these keys.
- When exchange badges are used, they are received upon every entry and exchanged immediately upon exiting from a firing area. Exceptions may be granted by the DX-4 Group Leader or his Designees in Area III under special circumstances when there are no explosive operations planned for an extended period.
- The DX-4 Group Leader or his Designee may <u>establishauthorize</u> deviations from normal exchange badge policy.
- Uncleared personnel shall be escorted into all areas. L-Cleared personnel shall be escorted into all Q-Cleared areas. Neither uncleared nor L-Cleared personnel will be issued exchange badges.
- Special keys are found on visitor exchange badges. These keys unlock access gates. These keys must not be removed from the exchange badges.
- Perimeter gate keys are <u>administratively</u> controlled by the Access Control Office at TA-15-446. Perimeter gates and barricades are listed in Attachment 1, "Site Description."
- The Access Control Office will be manned after hours for explosives operations at all sites, and in Area III, for A Minor radiation operations if visitors are present. After hours, hazardous operations in any area require Access Control at TA-15-446 to be informed

before the close of business (4:00 PM), so that a central point of contact exists for informing all emergency personnel or other traffic in the area. Any visitors remaining at TA-15 or TA-36 firing areas will inform the Access Control Office before (4:00 PM), and make appropriate arrangements for recovering their regular technical badges from the exchange badge rack. The TA-22 DX-1 Group Office will inform the TA-15-446 Access Control Office of any personnel conducting hazardous operations at TA-40 after hours. Personnel conducting hazardous operations at TA-39 after hours will inform the Access Control Office before the close of business.

7.2 Visitors

All visitors must report to the Access Control Office or to the proper Local Access Office (TA-9, TA-15, TA-22, or TA-39) for permission to enter firing areas.

7.2.1 Access Control Office at TA-15-446

- Normal working hours at TA-15-446 are 8:00 AM 4:00 PM. Work <u>before or</u> after normal working hours needs to be arranged through Access Control.
- Before entering the firing area for the first time, visitors will receive safety instructions, read a visitor orientation packet, and sign the visitor information sheet to certify that they have read and understand the information. They must also sign the visitor log book on each entry and departure.

7.2.2 Tours

Tours of a firing area are not given while firing operations or other hazardous operations are in progress in that area. Experiment Observation is not considered a tour. The DX-4 Group Leader or his Designees may waive any Exchange Badge requirement for tours involving a large number of people. In such cases, the escort will have a pictured exchange badge where required, and will report the number of people in the tour to the Access Control Office or local access offices where appropriate information will be attached to the escort's technical badge.

7.2.3 Experiment Observation List

A person on site solely to passively observe a experiment is classed as a visitor. Experiment Observation does not constitute a tour. Observers will be escorted, and their presence at the observation point will be checked against the Experiment Observation list at appropriate times.

7.3 Vehicle Access

It is strictly forbidden to pass any barricade,

closed gate, roadblock, or warning sign.

Visitors encountering any of these access restrictions should return to the Access Control Office or Local Access Office or wait until the restriction is removed by the cognizant Firing Leader or designee.

Only the Firing Leader may grant permission to remove any such restriction. This permission can be granted only through direct verbal contact (includes radio and telephone). Visitor escorts will explicitly inform their charges of the acquired permission and the circumstances of its granting.

<u>Travelers in the Firing Areas should check with the Access Control Office or the Local Access Office before traveling.</u>

It is strictly forbidden to pass any barricade or roadblock. Visitors encountering these should return to the Access Control Office or Local Access Office or wait until the restriction is removed. Travelers should check with the Local Access Office before starting.

The Lead Clearance Patrolman and the Firing Leader are authorized to restrict any travel that would affect personnel safety or would delay any firing operation.

7.4 Emergency Procedures

7.4.1 Building or Site Emergency

If an emergency situation should occur, follow the Buildi<u>DX-DO: SOP 07 DX-</u> <u>Division Emergency Guide.ng Emergency Plan (BEP)/Site Emergency Plan (SEP).</u> The BEP/SEP must be available in the building and the operators shall be familiar with its contents.

7.4.2 Personal Injury

In any emergency involving injury to a person or persons, the employee encountering the accident should use good judgment on the procedures to be followed, depending on the circumstances. Decisions made by a DX Division employee at the scene of an accident will be supported by the DX Division management.

If there is a serious injury or accident-

-dial 911, aid victims. direct emergency vehicles, notify the Group Office, record accident details.

- <u>Call 911</u>
- Provide First Aid as needed
- Stay with the victim until help arrives

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• Call your Group Office as soon as possible

8.0 **REQUIRED RECORDS**

- Daily Visitor Log.
- Visitor and Training Databases.
- Visitor Information Sheet.

9.0 **REFERENCES**

- DOE Explosives Safety Manual.
- Los Alamos Environment, Safety, and Health Manual, AR 6-6, "Explosives."
- DX Division Operations Manual
- DX-4 SOP 03 General Safety
- DX-4 SOP <u>0</u>4 General Firing Operations

10.0 ATTACHMENTS

ATTACHMENT 1. Maps and Site Descriptions

- <u>TA-14</u>
- TA-15
- TA-36
- TA-39
- <u>TA-40</u>

ACCESS CONTROL AT AREA K-I, TA-15 AND TA-36

DX-4

STANDARD OPERATING PROCEDURE

FOR

ACCESS CONTROL at AREA K-I,

TA-15 and TA-36

SOP 1.2

| Prepared by: | J. V. Lujan, DX-4 | |
|--------------|--|--|
| Prepared by: | J. A. Lopez, DX-4 | |
| Approved by: | G. D. Vasilik, DX-4 ES&H Officer | |
| Approved by: | J. M. McAfee, DX-4 Group Leader | |
| Approved by: | A. L. Cucchiara, ESH Deployed Team Leader, DX-FMST/RSO | |
| Approved by: | C. M. Montoya, DX-DO Operations Coordinator | |
| | Controlled Document Number: | |

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| 9.0 REFERENCES |

1.0 INTRODUCTION

Access Control prevents people from accidentally being in the vicinity of an explosives test or other hazardous operation by imposing physical barriers and also administrative restrictions. DX Division personnel conduct test-firing operations involving explosives at TA-15 and TA-36 Firing Sites. All personnel must be assured of a safe working environment while they are in the DX firing areas.

2.0 PURPOSE

This Standard Operating Procedure (SOP) describes the general precautions and procedures for administering access to the Area K-I firing sites at TA-15 and TA-36.

3.0 SCOPE

This SOP applies to all individuals who require access to the Area K-I firing sites at TA-15 or TA-36. Maps of Area K-I is given as Attachment 1 and 2.

General Clearance Procedures and definitions of terms are described in DX-4: SOP <u>04</u> -General Firing Operations, -DX-4: SOP 1.0 General Access Control, and clearance procedures are also discussed in Area K-I SOPs for DX Site-Specific Firing Operations.

4.0 **DEFINITIONS**

| Area K-I | Encompasses Kappa Site (TA-36), and the northern part of R-Site (TA-15) mesa east of the safety fence. |
|----------------------|---|
| Local Access Office: | Each firing area has a Local Access Office as a convenience for visitors. The Local Access Office for Area K-I at TA-15 and TA-36 is the DX-4 Access Control Office at <u>TA-15-446TA-15-183</u> . |
| Perimeter Gate: | A gate at the boundary of the explosives buffer area. Two perimeter gates (2 and 3) are found along Pajarito Road, and five perimeter gates (4 through 8) are found on State road 4 between White Rock and Ancho Canyon. East —— |

| DX-4: SOP 1.2 Revision A Original | ACCESS CONTROL AT AREA K-I, TA-15 AND TA-36 | Page 5 df <u>8</u> 9 |
|---|---|-----------------------------|
| | Gate is also considered a perimeter gate. Key the Access Control Office at $TA-15-446TA-1$ | vs are kept in 5-183. |
| Safety Fence: | The fence running north and south across the R-Site mesa, separating the administrative area from the firing areas. | |

5.0 **RESPONSIBILITIES**

5.1 Firing Site Leader

- Determines who is allowed access during firing or other hazardous operations.
- Responsible for the safety of personnel, equipment, and facilities at the firing site.

5.2 Access Control Officer

- Authorized by Group Leader or designee to administer personnel access into Area K-I firing areas.
- Works at the Access Control Office at TA-15-446TA-15-183.
- Responsible for managing the visitor exchange badge process as appropriate.
- Verifies that requirements for visitor access are met. Maintains visitor access documents and records.
- Interacts with Firing Site Leader for firing operations. Participates in clearance procedures as appropriate. In particular, Access Control Officers at <u>TA-15-446TA-15-183</u> participate in Fire Department access into Area K-I Firing Sites.

6.0 **PRECAUTIONS AND LIMITATIONS**

It is strictly forbidden to pass any barricade, closed gate, roadblock, or warning sign.

Visitors encountering any of these access restrictions should return to the Access Control Office or Local Access Office or wait until the restriction is removed by the cognizant Firing Leader or designee. Only the Firing Leader may grant permission to remove any such restriction. This permission can be granted only through direct verbal contact (includes radio and telephone). Visitor escorts will explicitly inform their charges of the acquired permission and the circumstance of its granting.

It is strictly forbidden to pass any barricade or roadblock. Visitors encountering these

will return to the Access Control Office or Local Access Office or wait until the

restriction is removed. Travelers must check with the Access Control Office before

starting into the area.

6.21 Smoking, Matches, and Flame-Producing Devices in Firing Areas

- No one may take matches, lighters, or other flame-producing devices into the firing areas. Matches and lighters must be left at the Access Control Office at <u>TA-15-446TA-15-183</u>
- Exceptions are discussed in DX-4: SOP 03 General Safety.

6.32 Fire Department Notices

- Fire Department notices for Firing Operations are given by the Access Control Office at <u>TA-15-446TA 15-183</u>, for every firing site.
- Fire Department access procedures are specific to individual firing sites and are discussed in DX-4: SOPs 22 for Site Specific Firing Operations in Area K-I.

7.0 **PROCEDURAL STEPS**

7.1 Exchange Badges

- For Knowledgeable personnel, no exchange badge is required for entry to area K-I. Requirements for obtaining keys to the access gate are the same as requirements were previously for obtaining exchange badges; at least four months' experience working in a firing area as verified or accepted by the DX-4 Group Leader or Designee, having met the training requirements stipulated by DX-4, and being judged competent to perform safely in an authorized firing area.
- Exchange badges bearing a "V" are used for visitors. They are obtained at TA-15, at the DX-4 Access Control Office. They provide a key to open the access gate that

| DX-4: SOP 1.2 | ACCESS CONTROL | |
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| Revision AOriginal | AT AREA K-I, TA-15 AND TA-36 | Page 7 of <u>8</u> 9 |

separates the Firing Areas from the TA-15 Administrative areas. These keys must not be removed from the exchange badges. Exchange badges must be exchanged immediately upon exiting from a firing area. The recipient is given a site-specific safety orientation which is valid for a year. The DX-4 Access Control Office keeps a visitor log for all recipients of visitor badges.

7.1.1 Emergency Response In Area K-1

- Knowledgeable Personnel will provide escorts for emergency personnel during normal working hours.
- The Access Control Office will handle emergency response through Station 431 for emergencies occurring between West Gate and the bottom of Ridge Road (intersection of Ridge Road east of IJ intersection).
- The Access Control Office will handle emergency response through Station 223 for emergencies occurring on Potrillo Drive between East Gate and Lower Slobbovia.

7.2 Visitors

• All visitors must report to the Access Control Office at $\underline{TA-15-446TA-15-183}$ for permission to enter the firing areas. Before entering the firing area for the first time, visitors will receive safety instructions, read a visitor orientation packet, and sign the visitor information. They must also sign the visitor log book. on each entry and departure:

- Unescorted visitors shall have a Q-clearance, and obey all aspects of the sitespecific orientation. Unescorted visitors may escort Escorted Visitors. Escorted Visitors shall obey and stay with their escort at all times while in the firing area. L-Cleared and Uncleared Visitors do not receive an exchange badge, but are listed under their escorts exchange badge.
- During hazardous operations, all visitors must be under the escort of knowledgeable personnel.
- All visitors who require off road access will be given enhanced visitor training. Additionally, visitors will be required to be monitored by a Radiological Control Technician (RCT) or knowledgeable employee upon exit from Area K-I.
- The Access Control Office will determine if individuals require an escort. If there is any question regarding the need for an escort, the Access Control Office will contact the DX-4 Group Leader or designee.
- Unescorted visitors may remain in Area K-I after normal working hours only with prior permission from the DX-4 Group Leader or designee. Appropriate arrangements will be made for recovering their regular technical badges from exchange badge rack.

7.2.1 Tours

• Exchange badges are required for visitors before they may enter Area K-I. However, the DX-4 Group Leader or designee my waive the Exchange Badge requirement for tours involving a large number of people. In such cases, the escort will be a knowledgeable employee and will report the number of people in the tour to the Access Control Office, where appropriate information will be

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noted.

7.3 Vehicle Access

It is strictly forbidden to pass any barricade or roadblock. Visitors

encountering these will return to the Access Control Office at

TA-15-183 or wait until the restriction is removed. Travelers must

check with the Access Control Office before starting into the area It is strictly

forbidden to pass any barricade, closed gate, roadblock, or warning sign.

Visitors encountering any of these access restrictions should return to the Access Control Office or Local Access Office or wait until the restriction is removed by the cognizant Firing Leader or designee.

Only the Firing Leader may grant permission to remove any such restriction. This permission can be granted only through direct verbal contact (includes radio and telephone). Visitor escorts will explicitly inform their charges of the acquired permission and the circumstance of its granting.

The Clearance Patrolmen and the Firing Leader are authorized to restrict any travel that would affect personnel safety or would delay any firing operation.

7.4 Radios

Radios will be issued as required at TA-15-446TA-15-483, Access Control Office, to help keep track of traffic to Firing Sites and non-site areas, such as canyons adjoining TA-15.

7.5 **Opening and Closing Access Gate**

The first person entering Area K-I at the beginning of each work day has the responsibility to close the Area K-I access gate. The last person to exit at the end of the

work day has the responsibility to leave the gate open, and place the switch in the open position_(in case of power failure during the night). This will allow security patrols to continue with their required checks. The Access Control Office will monitor this activity

7.6 Area K-I Gates and Chains to Non-Firing Areas

- The Access Control Office is responsible for access through Area K-I gates and chains to non-firing areas. IJ, EF, R44, R45, fire roads are included in these areas. These are not normal working areas and will not be cleared unless the gate is open or chain is down, to indicate that people are present in these areas.
- Personnel who require access through these gates or chains and who have received permission will be instructed to leave them <u>unlocked and opened</u> while in the administratively controlled area. Gates must be closed and chains brought up when leaving these areas unless instructed by Access Control to do otherwise.

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• EF and some Areas of IJ are subject to radiological monitoring requirements.

7.6.1 K-I East Gate at TA-36

- The East Gate will be locked and only knowledgeable personnel or emergency personnel will be allowed access through this gate.
- Personnel who pass through the East Gate will make sure the gate is locked immediately after entry or exit.

NOTE: The East Gate will never be left unlocked without The DX-4 Group

Leader or Designee approval.

7.7 Emergency Procedures

In the event of an emergency situation, the <u>DX-DO</u>: <u>SOP 07 Division Emergency</u> <u>GuideBuilding Emergency Plan (BEP)/ Site Emergency Plan (SEP)</u> shall be followed. The <u>DX-DO</u>: <u>SOP 07 Division Emergency GuideBEP/SEP</u> shall be available in the building and the operators shall be familiar with its contents.

8.0 **REQUIRED RECORDS**

- Daily Visitor Log-
- • Visitor and Training Databases-
- Wisitor Information Sheet-

9.0 **REFERENCES**

- — DOE Explosives Safety Manual-
- —Los Alamos Environment, Safety, and Health Manual, AR 6-6, "Explosives."
- — DX Division Operations Manual
- <u>DX-4</u>: <u>DX-4</u> SOP: -1.0 General Access Control
- <u>DX-4</u>: <u>DX-4</u> SOP: 4<u>04</u>. General Firing Operations
- DX-4:
- ——SOP <u>22</u> for <u>Site Specific</u> Firing Operations in Area <u>K-HI (Site-Specific)</u>
- DX-DO: SOP 07 Division Emergency Guide

10.0 ATTACHMENTS

ATTACHMENT 1 and 2. Maps of Area K-I+; TA-15 and TA-36.

DX-4

STANDARD OPERATING PROCEDURE

FOR

GENERAL SAFETY

SOP 03

| Prepared by: | J. M. McAfee, DX-4 |
|--------------|---|
| Approved by: | Date: G. D. Vasilik, DX-4 ES&H Officer |
| Approved by: | Date: J. M. McAfee, DX-4 Group Leader |
| Approved by: | Date: A. L. Cucchiara, ESH Deployed Team Leader, DX-FMST/RSO |
| Approved by: | Date: C. M. Montoya, DX-DO Operations Leader |
| | Controlled Document Number: |

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1.0 INTRODUCTION

At Los Alamos, DX-4's primary mission is to support experimental research and development and application of explosives for the Los Alamos Nuclear Weapons Program and other customers. We define the safety envelope, operational expertise, and experimental facilities for all Los Alamos explosives firing operations in the Division.

2.0 PURPOSE

This SOP is one of the series of DX-4 SOPs that provides necessary information, describes the hazards, and specifies safety procedures for all Los Alamos areas and operations under the purview of the Field Operations and Experiment Support Group, DX-4. The purpose of this SOP is to provide general information and to identify the general hazards to which personnel may be exposed and to specify ways to minimize these hazards. This document provides part of the common reference material and the basic procedures and protocols that are part of ensuring a safe working environment.

3.0 SCOPE

This SOP is applicable to all personnel who perform work in, or visit the areas listed below, or who are authorized to perform explosives firing operations in the areas operated by DX-4. These Explosives Firing Areas are described below and identified on the Maps attached as Figure 1:

- Area III (R-Site) includes the area south and east of Building TA-15-446 (Access Control), and east of the safety fence.
- K-I (Kappa Site) includes all DX-Division areas between the R40 gate and the East Gate.
- TA-39 (Ancho Canyon) includes all areas north of the firing area access gate (but excludes the gas gun building 69 and support buildings 56 and 89).
- TA-40 (DF Site) includes all TA-40 DX-4 facilities south of Buildings 1 and 23.
- TA-14 (Q-Site) includes TA-14, Q-Site buildings.

This SOP applies to all personnel, operations, and equipment involved in these experimental areas.

4.0 **DEFINITIONS**

• Access Control -- Access Control is a series of procedures that must be completed to gain authorized entry to any Firing Area. Access Control is performed according to the General Access Control DX-4: SOP 1.0 and area-specific access control SOPs. Access Control is governed by the Access Control Office, and by Local Access Offices. The Access Control Office in TA-15-446 administers access into firing areas at TA-15, TA-36, and TA-39, and oversees the exchange badge process and controls visitor access into these firing areas. Access to TA-39 is also handled through the Administrative Office at TA-39-2. Access to
TA-40 is administered by the DX-1 Group Office at TA-22-90. Access to TA-14 is via the DX-2 Group Office at TA-9-21.

- Access Gates -- Gates or chains that can be locked. The keys are administratively controlled by the Access Control Office and Local Access Offices.
- Area K-I -- Kappa Site Area I includes R-306 at TA-15, all (five) firing sites at TA-36, and the northern part of R-Site mesa east of the safety fence.
- Area III -- Encompasses the south leg of R-Site mesa where the PHERMEX and DARHT firing sites are located. It includes all of the mesa leg south and east of the Access Control Office R-446 and east of the safety fence. The north, east, and south are bounded by canyon rims.
- Authorizations and Assignments Document -- A DX-Division document that lists those individuals with special authorizations and/or assignments in the areas of explosives firing operations, firing area access, general industrial safety, special operations, and other areas of ES&H.
- **Barricade** -- A portable device, such as a sawhorse, with an appropriate sign, used to halt traffic into an area that is hazardous or is about to become hazardous.
- **Clearance Plans** -- Procedures that protect personnel within the firing areas by controlling access during explosive experiments, radiographic operations, or other potentially hazardous operations. The level of the clearance plan determines the control procedures to be followed, and the extent of the cleared area.
- **Cleared Area** -- An area that has been physically patrolled by a person performing assigned duties, or an area in which all personnel have been accounted for. A Cleared Area has been declared safe for firing or other operations to proceed.
- **EED** Electroexplosive Device.
- ERC Explosive Review Committee.
- ES&H Environment, Safety, and Health.
- Escort During hazardous operations, an escort is defined as a Knowledgeable Person, who is familiar with procedures and operations in the firing areas and who assumes responsibility for the safety of assigned visitors at the firing site.

During non-firing operations, escort refers to a Q-cleared person accompanying a non-Qcleared person in secure areas.

- **Explosives --** Explosives are defined in the *DOE Explosives Safety Manual* as any chemical compound or mechanical mixture that will burn or explode if heated, exposed to impact, pinched between moving surfaces, or subjected to an electric discharge or strong shock. The term applies to materials that either detonate or deflagrate. Because explosives do not all behave in the same way, they are divided into classes. Those of most interest to DX Division are initiating, boostering, and bursting-charge (secondary) explosives, propellants, and some types of military ammunition. A list of approved explosives is given in Attachment 1.
- Explosives Allowed Area -- Any area authorized to store, manipulate, prepare, or set-up for firing explosives or explosive-containing components.
- Explosives Excluded Area -- An area where no explosive, explosive contamination, or operations with explosives are allowed. Generally, these are firing and diagnostic bunkers, offices, and buildings not specifically designated for explosives use or operations.

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- Firing Areas -- The areas where firing operations are conducted. Access to these areas is controlled administratively and by an area Access Gate. These areas are Area K-I, Area III, TA-40 Firing Area, TA-39 Firing Area, and TA-14.
- Firing Keys -- Strictly controlled keys that unlock firing circuits.
- Firing Leader -- A full-time DX Division employee, authorized by DX-4 line management to supervise, conduct, and be responsible for operations and safety at the site of the test. This person's accumulated knowledge and experience are crucial to all explosives firing operations.
- Firing Mound -- Firing mound refers to the sand pile or steel firing pad on which the shot assembly is placed.
- Firing Point or Site The actual location of an explosive test and its exclusion area behind the appropriate safety gate.
- **Hazard Circle** -- A region, not always circular in shape, that is evacuated in a clearance plan because shrapnel from the shot is expected to land within that region. May also be called a hazard zone or a fragment area. However, the definition of a hazard circle is only a guideline, fragments occasionally land outside of them.
- **HE** -- High Explosive.
- Knowledgeable Person or Employee -- A person, authorized by the DX-4 Group Leader or the Deputy Group Leader, deemed eligible for a pictured exchange badge or permanently-assigned area-access key because of specified training and experience. This authorization is recorded in the Authorizations and Assignments Document. All other personnel are visitors. All required reading, institutional training, and OJT requirements must be completed before authorization as a knowledgeable person or employee.
- Local Access Office -- Access to TA-14, TA-39, and TA-40 is governed by Local Access Offices at TA-9, TA-39, and TA-22, respectively. These offices supplement the Access Control Office, and handle some visitor access. (See Access Control).
- Low Energy EEDs -- Hot-wire initiators, squibs, blasting caps, etc.
- **Pictured Exchange Badge** -- A badge bearing the employee's picture, given to employees who are authorized to have unescorted access to a particular firing area.
- **Primary Explosives** -- Explosives with a sensitivity greater than PETN.
- Safety Fence -- A fence placed to indicate a separation of areas, usually a supplement to, and continuation of, a safety gate or an access gate.
- Safety Gate -- A gate that marks the entrance to a Firing Point. The last gate before hazards may be encountered, the safety gate may be interlocked, or manually locked.
- SOP -- Standard (or Safe) Operating Procedure.
- SWP -- Special (or Safe) Work Permit.
- Visitor's Badge (V Badge) -- A badge bearing a "V" instead of a picture, to be given to visitors who are not knowledgeable in local operations and procedures, but have received site-specific training.
- Visitor -- a person in a firing area who is not authorized as a "Knowledgeable Person."
 Escorted -- Visitors who have not received site-specific training or are unfamiliar with operations, or who lack a Q clearance, and are escorted into firing areas.
 Unescorted -- A visitor who has received site-specific access orientation, and a Visitor's Badge, and may be in a firing area unescorted.

5.0 **RESPONSIBILITIES**

The responsibilities described below are common to all DX-4 SOPs.

5.1 All Employees

By Laboratory policy, the primary responsibility for ES&H rests with line management. However, the individual employee is the one best able to assure his or her personal safety. Employees must not undertake any operation they believe will be unsafe or contribute to an unsafe condition; rather, they must report such to their line supervisor or ES&H Officer who will resolve the concern or seek further guidance from line management.

Urgency is never an excuse for performing an unsafe operation or violating an ES&H rule. Line supervisors are responsible for establishing a safe work environment; the employees, in turn, must follow all ES&H rules for their own safety and the protection of their fellow employees and the environment.

5.0.1.1 All individuals shall comply with the SOPs governing any activity in which they are engaged. Ignorance of the contents of an SOP does not excuse any violation. Any confusion or uncertainty regarding an SOP or a proposed operation should be clarified before an operation begins.

5.0.1.2 All employees are encouraged, at all times, to suggest changes to an SOP or procedure. For example, a change might make an SOP easier to read, or an operation safer or more efficient.

5.0.1.3 In situations where an approved SOP cannot or should not be strictly adhered to, the SOP must be revised or a deviation be formally approved (i.e. SWP). Violations of SOPs (or any other action which jeopardizes safety), whether willful or unintentional, cannot be tolerated and must be reported to the Group Leader for appropriate action. If a violation is committed by someone other than a DX-4 employee, that person's organization will be notified by the Group Leader.

5.2 Supervisors

Each line supervisor must know the SOPs that apply to operations under their control and will be responsible for assuring that these SOPs are kept current and enforced.

5.3 Firing Leader

The Firing Leader shall have immediate responsibility for the operational safety of an operation, and <u>shall be the final authority on questions of safety and procedure during operations at a Firing</u> Point.

The Firing Leader is:

- Responsible for the safety and security of the firing operations.
- Responsible for personnel control on the firing mound or in the firing chamber.
- Responsible for overseeing the safety of the firing crew, other personnel, equipment, and facilities at the firing site.
- Responsible for selecting or confirming the choice of the appropriate clearance plan (hazard circle) for the shot, based on details of the experiment.
- Responsible for firing keys during firing operations.
- Knowledgeable about group SOPs and operations.

and shall

- Ensure that safety and operational equipment is used properly.
- Not permit firing until all personnel within the hazard zone of the shot are in safe shelters, or are removed from the hazard zone.
- Participate in inspections and ensure that any defects found during routine maintenance and inspection are corrected by the appropriate personnel.
- Assist in critiques and accident investigations, and report occurrences.

and may

• Delegate some responsibilities to authorized personnel when appropriate.

5.4 Knowledgeable Persons

Knowledgeable Persons shall obey the safety and security procedures for firing operations, obey access control and clearance procedures, and assist others in the proper conduct of firing area operations. Knowledgeable Persons must exhibit personal ownership of working areas and, if there are any ES&H concerns, take personal responsibility to see that proper actions are requested and implemented.

Designation as a Knowledgeable Person <u>only</u> allows unescorted access to Firing Areas. Many operations in Firing Areas require additional authorization or licensing (for example: operating cranes or forklifts, or handling HE). Knowledgeable persons may escort all types of visitors.

5.5 Unescorted Visitors

Unescorted visitors shall have a clearance as specified in the site-specific access control SOP, and obey all aspects of the site-specific access control SOP and visitor orientation. Appropriately cleared unescorted visitors will be given V badges for entry to TA-15, -36, -39, and -40. Specifics of access will be determined by the Access Control Office and Local Access Offices according to the site-specific SOPs.

5.6 Escorted Visitors

Escorted Visitors shall obey and stay with their escort at all times while in a firing area.

5.7 Required Reading

5.7.1 Each employee must read all the SOPs that apply to their job at the time of their assignment and yearly thereafter. Revisions to the SOPs must be read prior to performing the operations described.

5.7.2 Line supervisors will be responsible for determining which SOPs are required for their employees.

5.8 Training

5.8.1 The line supervisors are responsible for on-the-job-training, documentation of that training, detailed instruction, and monitoring of the operators' competence and adherence to instructions.

5.8.2 Explosive operations shall be performed only by authorized personnel with proper training and supervisory approval.

5.8.3 All training is to be in accordance with the DX Division Training and Qualifications Manual.

5.9 Waste Minimization and Management

5.9.1 Waste minimization will be handled according to DX-DO: SOP 01 Waste Management in DX-Division and the Waste Minimization section of the DX Division Operations Manual and the LANL ES&H Manual, AR 10-8.

5.9.2 Waste generated from operations must be reduced as much as technically and economically feasible. To meet this objective, the waste minimization practices of material substitution, good housekeeping, and hazard segregation must be incorporated into all waste generating activities. All waste generators are responsible for making every practical effort to reduce the amount of waste produced.

5.9.3 All waste will be handled according to DX-DO: SOP 01 Waste Management in DX-Division and the LANL ES&H Manual, LIR 404-00-03.0.

6.0 PRECAUTIONS AND LIMITATIONS

Precautions: The general hazards associated with DX-4 operations include mechanical equipment (from hand tools to mobile cranes), electrical sources (wall outlets to high voltage capacitors and power supplies), laser and <u>X-Ray radiation</u>, <u>DU</u> or other <u>radioactive</u> materials, chemicals (Hazardous and non-hazardous materials (chemicals, etc.) are included in experiments. Industrial <u>Hygiene</u>, support is available to mitigate the different types of hazards that may be encountered. Contact your ES&H officer or an Industrial <u>Hygienist</u> for this support). The foremost hazard is high explosives. The precautions and limitations for each of these hazards are given in the SOPs that cover particular operations or locations. Because explosives are the common element of most DX-4 operations, the precautions and limitations for their use are detailed here.

6.0.1 The hazards associated with explosives and explosive devices are blast, fragments, violent deflagration, and possible toxicity.

6.0.2 Explosives are energetic materials that can react violently. Explosives will be protected from abnormal stimuli or environments, including:

- friction forces
- excessive pressures
- impact, shock, pinching
- deformation
- electrical sparks, abrasive or welding sparks, open flame
- contamination
- excessive temperature

6.0.3 An approved SOP/SWP shall be available before any explosives operation is performed. Such SOPs/SWPs shall be readily available in the work areas to which they apply.

6.1 Housekeeping and Personnel Hygiene

Housekeeping in all areas shall be maintained at extremely high levels. Aisles, corridors, and safety exits shall not be blocked.

6.1.1 Spilled explosives shall be cleaned up immediately, then, if necessary, disposed of according to the DX Division Waste Management SOP.

6.1.2 In addition to being an explosive hazard, explosives also are a possible toxic hazard, with respect both to inhalation and to contact with the skin. Some people are

more sensitive than others and can, for example, develop a skin rash, or get headaches from the nitroglycerin in propellants. For these reasons, personnel shall maintain a high degree of personal hygiene by washing their hands after handling explosives, especially before eating or smoking.

6.1.3 Personnel handling explosives shall visually check their work clothing to be sure no explosives are carried from an explosives area to a non-explosives area. Personnel shall not consume any food or drink item in any Explosives Allowed Area.

6.1.4 All maintenance and custodial personnel shall be cleared into any explosive area prior to any maintenance work. The DX-4 SOP governing Custodial and Maintenance Activities in Firing Areas discusses the procedures and limitations to be followed by all personnel doing such work. The removal of any equipment from an explosives work area shall meet the requirements of this SOP. Maintenance work in an Explosives Allowed Area may require an SWP.

6.1.5 Use of flammable solvents in an explosives area considerably increases the explosive hazard because of the ease-of-ignition of the solvent with a possible spread of fire to explosives. Therefore, solvent use and evaporation shall be kept to a minimum. Solvent use will take place in well-ventilated areas, and with proper personal protective equipment.

6.2 Hearing Protection

Hearing protection must be provided at all operations where there is a potential for hearing damage, and must be worn when appropriate.

6.3 Barricades, Gates, Roadblocks, and Warning Signs

It is strictly forbidden to pass any barricade, closed gate, roadblock, or warning sign.

Visitors encountering any of these access restrictions should return to the Access Control Office or Local Access Office or wait until the restriction is removed by the cognizant Firing Leader or designee.

Only the Firing Leader may grant permission to remove any such restriction. This permission can be granted only through direct verbal contact (includes radio and telephone). Visitor escorts will explicitly inform their charges of the acquired permission and the circumstances of its granting.

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Travelers in the Firing Areas should check with the Access Control Office or the Local Access Office before traveling.

Typical warning signs are indicated below. All personnel are required to obey the restrictions indicated by any sign in all areas. A warning sign near the firing mound can read:

DANGER EXPLOSIVES Return to lights if horn or siren is sounding.

A warning sign used for barricading an access road during a clearance procedure can read:

DANGER KEEP OUT High-Explosive Operations in Progress

A warning sign used for barricading an access road during a radiographic operation can read:

DANGER KEEP OUT X-Ray Operation in Progress

6.4 Warning Lights, Horns, and Sirens

The particular sequence of lights, horns, sirens, and pauses differs in detail at the various firing sites. An exact description of the horn-siren sequence for a given Firing Point is found in the Site-Specific SOP for that Firing Point. In general:

- Horns sounded alone (and flashing lights where installed) indicate an experiment will commence in the next several minutes. All personnel should be under cover or at a safe distance. If not, they should seek safe shelter or distance immediately.
- A siren sounding for more than 30 seconds indicates that explosives may be fired within a few minutes. All personnel should be under cover or at a safe distance.
- Two short siren soundings indicates an "All Clear" or safe condition now exists on the Firing Point.

6.5 Radio Communication

Communication on the DX Division radio networks shall be brief, necessary, and unclassified.

General Safety

6.5.1 Multiple Division Radio Nets

There are several frequencies available for DX Division operations. All of the nets are accessible from Division radios. A list of the net names, call signs, frequencies, and normal use areas is given in Attachment 4.

6.5.2 Use of Radios During a Test or Experiment

There is free-channel radio communication among all firing bunkers, vehicles used for clearance operations, the Access Control Office, the Group Office, several offices of DX Division, and Division members whose expertise is often needed during shot operations. During the time that the firing circuit is unlocked, the radio should be reserved for communication concerning the shot being fired and emergencies.

6.5.3 Restrictions

Handheld radios and mobile RF transmitters (e.g., cell phones) are generally allowed for use within the Explosives Firing Areas. However, in areas where low energy EEDs are stored or used in assemblies or test devices, special control must be exercised. Likely restricted areas include:

- TA-14-22 and 23
- TA-22-34
- TA-22-93
- TA-22, all magazines
- TA-40-5, 6, and 7
- TA-36-11, 12, and 83

6.5.3.1 Whenever low energy EEDs are present, it shall be the responsibility of the authorized Firing Leader in the potentially restricted areas to inform the appropriate access control personnel that all RF transmitters in these areas must be turned off. This will be accomplished by informing access control personnel in the TA-22 (DX-1) Group Office, the R-446 Access Control Office, the TA-39 Administrative Office, or the TA-9 (DX-2) Group Office; who will then restrict visiting personnel from using RF transmitters. Further, operators will place signs on all routine entrances to these areas informing personnel to turn off all RF transmitting devices before entering these areas. The Firing Leader will assure that all personnel within the restricted area are informed of the prohibitions.

6.6 Motor Vehicles

All motor vehicles shall be operated with extreme care, particularly when approaching or leaving the firing points, or while in the proximity of placarded explosives-carrying vehicles. Vehicles authorized to carry explosives will comply with all the requirements of the DOE Explosives Safety Manual.

6.7 Requirements for Documentation

An approved SOP/SWP shall be available before any explosives operation is performed. Such SOPs/SWPs shall be readily available in the work areas to which they apply.

6.7.1 An assessment of the hazards must be written for every new, proposed testing program or new process so that foreseeable hazards involved may be examined and mitigations instituted. This shall be done by the most knowledgeable person involved in the test or process with the advice and consent of the Division ES&H Committee, as appropriate. All SWPs will be written and approved according to the process given in the DX Division Writers Guide.

6.8 Approved Explosives and Glues

All explosives or explosive-containing devices that have been approved by the ERC or listed in (ESA) WX-3: SOP 1.1.0, Tables 1 & 2 may be used at DX-Division Firing Sites. Attachment 1 is a list of HE routinely used in DX Division. The list includes explosives in (ESA) WX-3: SOP 1.1.0.

6.8.1 No explosive powders or primary explosives will be handled at DX-4 without prior approval or appropriate SOPs/SWPs.

6.8.2 A list of approved glues for use with identified explosives is given in Attachment 2.

6.9 Control of Access Through Firing-Area Gates

DX-Division knowledgeable personnel and other knowledgeable personnel gain access to the firing areas by using administratively controlled keys. All other individuals must clear through either the Access Control Office (for TA-15, TA-36, and TA-39), the DX-1 Group Office (for TA-40), the DX-2 Group Office (for TA-14), or the Administrative Office at TA-39 before they will be allowed access to a firing area. Qualified Office personnel instruct visitors on the site hazards, have them read the appropriate visitor information, and enter their names in a log. Access Control Procedures are discussed in detail in DX-4 Access Control SOPs, including "General Access Control" (DX-4: SOP 1.0).

6.10 Working Alone

Authorized DX employees with current safety training and experience in explosive operations may work alone under appropriate circumstances, such as assembly, measurement, gluing, inspection, and clamping of certain consolidated explosives and explosive devices.

6.10.1 This working alone procedure authorizes personnel to work alone performing HE operations. When working alone with HE, employees will use a procedure appropriate for the particular work area. These procedures require Access Control, Local Access Office, or a coworker to have the following information:

- Who is working alone,
- Where they are located,
- How long they will be working alone (with a completion time).

6.10.2 All operations shall be performed in accordance with existing SOPs/SWPs. Personnel shall be assigned in a manner such that each worker's presence is frequently monitored, for example via radio or physical check. New, special, or non-routine operations will require a separate assessment and an SWP.

6.11 Electrical Equipment

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All operations shall be performed in accordance with LANL Electrical Safety Policies.

6.11.1 All permanent electrical equipment and wiring for those areas containing explosive hazards shall conform to the standards of National Electrical Code (NEC), Hazardous Locations, Class II or Class I & II (dual rated), as modified by the DOE Explosives Safety Manual.

6.11.2 Certain electrical equipment not rated NEC Class I or II is permitted for administratively controlled use within the Explosive Preparation Rooms. A list of those rooms is given in Attachment 3. The equipment listed in DX-4 SOP 4 "General Firing Operations" is approved as intrinsically safe when used under the restrictions noted. No electrical equipment may be used unless it is considered NEC Class I or II or listed in "General Firing Operations."

6.12 Protective Clothing and Equipment

6.12.1 Eye Protection

It is a requirement that eye protection be worn at all times when there are eye hazards. Operations can involve a wide range of eye hazards making it difficult and impractical to categorize the type of eye protection necessary for each specific operation involved.

- Eye protection must be worn in all areas in which eye hazards are known to exist, whether working with explosives or not (e.g., machine shops, carpenter shops, operations involving chemicals). Eye protection may be removed only as required for use of optical and other inspection devices.
- All personnel entering posted eye hazard areas must wear the appropriate eye protection for that area, except as permitted below.
- The requirement for eye protection may be waived by the Group Leader or designee for persons who are included in a guided tour where operations have been suspended. The waiver may apply to a room, building, or to all buildings to be visited.
- Visitors, other than those described above, must wear the appropriate eye protection in the designated eye hazard areas. It is the responsibility of every knowledgeable person in the area to assure that visitors are provided with the necessary eye protection.

6.12.2 Clothing

Generally, clothing provided by the Laboratory for the protection of employees (e.g., safety shoes, clothing for working out-of-doors, hard hats) should not be taken off the Laboratory premises. All involved personnel are expected to wear appropriate and/or required protective clothing according to the operations being performed. Questions regarding requirements and best practices will be resolved by line management.

- Coveralls (without cuffs) or lab coats shall be worn, at all times, if a potential for explosive-contamination by dust or chips on clothing exists. Explosive-contaminated clothing shall not be removed from the Explosives Allowed Area except for final disposal.
- Certain SOPs or SWPs may require that non-sparking soles, conductive shoes or leg stats be worn, therefore a check of the SOP or SWP covering the operations shall always be made.
- Visitors shall wear shoe coverings if their footwear does not meet the requirements for workers in areas where they are visiting.

6.13 Explosives Load Limits

Each magazine, explosives preparation room, and firing point has a maximum limit on the amount of explosive that can be present during normal operations. These limits are generally expressed in terms of "Pounds (or kg) of TNT explosive equivalent." The limits for DX-Division facilities are listed in Attachment 5, and in the Firing-Point, Prep Room or Magazine SOPs.

6.14 Lightning

All operations involving explosives shall be suspended during electrical storms in accordance with the DOE Explosives Safety Manual. Personnel shall be cleared from the Firing Mound during this suspension.

6.15 Explosives Excluded Areas

No explosives-contaminated equipment may be moved to an explosive-excluded area. Every effort should be made to avoid moving explosive contamination to an explosives-excluded area.

7.0 **PROCEDURAL STEPS**

7.1 Emergency Procedures

7.1.1 In all emergencies, call **911**. In the event of an emergency or incident, notify DX-4 management as soon as possible. Follow the DX Division Operations Manual to report any incidents or accidents.

7.1.2 The DX-DO: SOP 07 Division Emergency Guide will be followed. It covers what to do, depending on the circumstance.

7.1.3 If a spill occurs, the DX-DO: SOP 07 Division Emergency Guide will be followed, then the Waste Management Coordinators will be contacted.

7.1.4 In the event of eye damage, suspected eye damage, or tissue burns due to laser radiation, the source of injury shall be turned off or removed (as practical and safe), and the injured person taken to the Occupational Medicine Group (ESH-2) for treatment.

7.1.5 Any person receiving an electrical shock must report to the Occupational Medicine Group (ESH-2) for evaluation and/or treatment.

7.2 Handling of Explosives

The following general criteria apply to all operations that involve explosives:

- Handling of HE should be minimized.
- The distance that an item will fall if accidentally dropped must be minimized.
- Hard surfaces or sharp edges that could be struck by a bare piece of HE in the event of an accidental drop should be padded or otherwise protected.
- Floor areas where the handling of HE items is most likely to occur should be covered with an approved tile to reduce the danger in the event of an accidental drop.

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- The work area surrounding an HE item that is to be handled shall be kept clear of extraneous tools, components, fixtures, and other impediments that could interfere with handling operations.
- The sliding of bare HE on surfaces should be avoided because HE surfaces are relatively susceptible to marring by scratching or slipping. This is important from a quality as well as from a safety standpoint.
- The stability of an item must be maintained during all operations. The operator must evaluate the forces that will be acting on an item during the operation. If the operational forces will result in an unstable or unsecured situation, alternate procedures must be developed. Any uncertainty or question should be directed to the line supervisor for appropriate action.
- After an operation on an item has been completed, the item must be placed in a secure location and left in a stable configuration. When possible, all items destined for storage or movement elsewhere should be placed in suitably designed containers. An item must not be left in any position at any time where it can be easily toppled.

7.3 Fires

In the event of fire involving or imminently threatening explosives,

Clear the area and report the fire. Do not attempt to fight any fire involving explosives in any DX Division explosive area.

7.3.1 Fire extinguishers at magazines are for the purpose of fighting small external fires.

7.3.2 Vehicle-mounted fire extinguishers should be used on fires where explosives are not presently or imminently involved. Should a fire occur, an attempt to prevent the fire from spreading to the load should be made. If safe and possible, the explosives should be removed. If the fire presently or imminently involves the explosive load, evacuate all personnel to a safe distance. This distance should be at least 1,250 feet.

7.3.3 There shall be no smoking, except in designated locations. No matches, lighters, or other fire, flame, or spark-producing devices shall be taken into an Explosives Allowed Area, except with written authorization (SWP). There are electrical lighters provided at locations.

7.4 **Personnel Authorizations**

7.4.1 Firing Leader -- The list of authorized Firing Leaders, and the Firing Points they are authorized for, is given in the Authorizations and Assignments Document. Only the DX-4 Group Leader can authorize additions or deletions from the list of authorized Firing Leaders.

7.4.2 Knowledgeable Personnel have at least four months experience working in a firing area as verified or excepted by the DX-4 Group Leader. Knowledgeable persons will meet the training requirements stipulated by DX-4. Persons will be designated as "Knowledgeable" when they are judged competent to have unescorted access to an authorized firing area. Each of the five firing areas requires separate authorization.

8.0 **REQUIRED RECORDS**

- Daily Visitor Log
- Visitor and Training Databases
- Visitor Information Sheet
- Authorizations and Assignments Document

9.0 **REFERENCES**

- DOE Explosives Safety Manual
- Los Alamos Environment, Safety, and Health Manual, AR 6-6, "Explosives"
- DX-Division Operations Manual
- DX-Division Electrical Safety SOP
- DX-DO: SOP 01 Waste Management in DX-Division
- DX-DO: SOP 06 Radiological Controls
- DX-DO: SOP 07 Division Emergency Guide

10.0 ATTACHMENTS

- Attachment 1. HE routinely used at DX Division Firing Areas.
- Attachment 2. Adhesives and Glues routinely used at DX Division Firing Areas.
- Attachment 3. DX Division Preparation Rooms.
- Attachment 4. List of the net names, call signs, frequencies, and normal use areas for radios.
- Attachment 5: Load Limits for DX Division Facilities.
- Attachment 6: TNT Equivalent of some Common Explosives.
- Attachment 7: Definition of explosive contamination. Memo from the ERC.

Attachment 4

List of the net names, call signs, for radios.

MODEL: GE-M-RK

MODEL: GE-M-PA

| DX-Radio | Organizational | DX-Radio | <u>Organizational</u> |
|----------|---------------------|----------|-----------------------|
| Channel | <u>Call Letters</u> | Channel | <u>Call letters</u> |
| 1 | DX-1 | 1 | DX-1 |
| 2 | DX-2 | 2 | DX-2 |
| 3 | DX-3 | 3 | DX-3 |
| 4 | DX-4 | 4 | DX-4 |
| 5 | DX-5 | 5 | DX-5 |
| 6 | DX-6 | 6 | DX-6 |
| 7 | DX-7 | 7 | DX-7 |
| 8 | DX-DO | 8 | DX-DO |
| 9 | DX Fleet | 9 | DX Fleet |
| 10 | Emergency | 10 | Local 1 |
| 11 | Emergency | 11 | Local 2 |
| 12 | Emergency | 12 | Local 3 |
| 13 | Emergency | 13 | Local 4 |
| 14 | Emergency | 14 | Emergency |
| 15 | Emergency | 15 | Emergency |

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DX-4

STANDARD OPERATING PROCEDURE

FOR

GENERAL FIRING OPERATIONS

SOP 04

| Prepared by: | G. D. Vasilik, DX-4 | A |
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| Approved by: | G. D. Vasilik, DX-4 ES&H Officer | |
| Approved by: | Date: J. M. McAfee, DX-4 Group Leader | |
| Approved by: | Date: A. L. Cucchiara, ESH Deployed Team Leader, DX-FMST/RSO | |
| Approved by: | Date: C. M. Montoya, DX-DO Operations Coordinator | |
| | Controlled Document Number: | |

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1.0 INTRODUCTION

This SOP covers the conduct of explosives test-firing operations and nonexplosive tests conducted at DX Division firing sites. This document is not to be used as a "stand alone" document. Further training and understanding a site-specific SOP are required before conducting firing operations at any DX Division firing area or site.

2.0 PURPOSE

This SOP provides necessary information, describes the hazards, and specifies safety procedures common to all Firing Areas. Detailed descriptions of operations at particular firing sites may be found in the Site-specific SOPs for those firing sites. This SOP also generally describes the procedures for preliminary preparations, circuit testing, clearance, firing operations, misfires, test failures, and post experiment activities at DX Division firing sites.

3.0 SCOPE

This SOP is applicable to all personnel who frequent the areas listed below, or who are authorized to perform explosives firing operations at the areas operated by DX-4. In addition, DX-4 support personnel (staff members, appropriate clerical personnel, etc.) shall also be familiar with this SOP.

| Building or Site | Common Reference |
|------------------|--------------------------|
| TA-14-34 | Q-Site |
| TA-15-306 | R306 |
| TA-15-310 | R310, PHERMEX/MOC |
| TA-36-3 | Eenie Site |
| TA-36-6 | Meenie Site |
| TA-36-8 | Minie Site |
| TA-36-12 | Lower Slobovia |
| TA-39-6 | Point 6 |
| TA-39-57 | Point 57 |
| TA-39-88 | Point 88 |
| TA-40-4 | Chamber 4 |
| TA-40-5 | Chamber 5 |
| TA-40-8 | Chamber 8 (10-kg vessel) |
| TA-40-15 | Chamber 15 |

This SOP covers operations at the following firing sites.

These Explosives Firing Sites are identified on the Maps in Attachment 1.

Gun facilities at TA-39 and at TA-40 are under the jurisdiction of DX-1.

Access to the firing areas are covered in the DX-4: SOP 1.0 General Access Control, and by area-specific SOPs for TA-14, TA-39, TA-40, <u>TA-15</u> Area III, and <u>TA-15/36</u> Area K-I.

4.0 **DEFINITIONS**

- **Aborted Experiment** -- An aborted experiment is one that for any reason cannot be fired as planned and is to be returned to storage.
- Access Gates -- Gates or chains that can be locked. The keys are administratively controlled by the Access Control Office and the Local Access Offices.
- **Barricade** -- A portable device, such as a sawhorse, with an appropriate sign, used to halt traffic into an area that is hazardous or is about to become hazardous.
- **Bunker** -- The main protective building at a firing site, housing the control room, and usually the CDU, camera and diagnostics.
- **CDU** -- Capacitor Discharge Unit (also called Firing Unit or X-Unit).
- **Chamber** -- Bunker. The main protective building at a firing site, housing the control room, and usually the CDU, camera and diagnostics.
- **Clearance** -- Process by which an exclusion area is established and determined to be free of unprotected personnel, and safe for a firing operation.
- Clearance Checklist -- A step by step guide to ensure that each element of the clearance plan is executed and documented.
- Clearance Patrolman -- A Knowledgeable Person who physically inspects a clearance area or manually observes a barricade to assure that people are excluded from hazard zones.
- **Clearance Plans** -- Procedures that protect personnel within the firing areas by controlling conditions during explosive experiments, radiographic operations, or other potentially hazardous operations. The level of the clearance plan determines the control procedures to be followed <u>a</u>and the extent of the cleared area.
- **Cleared Area** -- An area that has been physically patrolled by a pperson performing assigned duties, or an area in which all personnel have been accounted for. A Cleared Area has been declared safe for firing operations to proceed.
- **Detonator Cable** -- The electrical conductor connecting a detonator to a CDU, or any initiating device to a firing unit.
- **<u>DDCO</u>** -- Detonator Circuit Ohmmeter only the PT 2204, SE 3065 or T-27 may be used to test continuity <u>of</u> detonator circuits.
- **EED** -- Electroexplosive Device.
- **EBW** -- Exploding Bridgewire.
- **Experiment Information Packet** -- For the Fire Department, a list of hazardous materials included in experiments that they attend, and MSDS forms for those materials.
- **Firing Area** -- The areas where firing operations are conducted. Access to these areas is controlled, and is through an Access Gate. These areas are <u>TA-15/36 Area</u> K-I, <u>TA-15</u> Area III, TA-40 Firing Area, TA-39 Firing Area, and TA-14.

- **Firing Cable** -- The electrical conductor conveying a trigger or firing pulse to a CDU or other firing unit.
- **Firing Checklist** -- (may include clearance checklist). A list of steps to be taken in preparing to fire and firing. Used as a reminder to ensure that no steps are forgotten, and all steps are documented.
- Firing Keys -- Strictly controlled unique keys that unlock firing circuits.
- **Firing Leader** -- A ffull time DX Division employee, authorized by DX-4 line management to supervise, conduct, and be responsible for operations at the site of the test. This person's accumulated knowledge and experience are crucial to all explosives firing operations.
- **Firing Mound** -- Firing mound refers to the sand pile or steel firing pad on which the experiment assembly is placed.
- **Firing Point or Site** The actual location of an explosive test and its exclusion area behind the appropriate safety gate.
- **Hazard Circle** -- A region, not always circular in shape, that is evacuated in a clearance plan because shrapnel from the experiment is expected to land within that region. May also be called a hazard zone or a fragment area. However, the definition of a Hazard Circle is only a guideline, fragments occasionally land outside of them.
- Hazard Zone -- Hazard Circle.
- **HE** -- High Explosives.
- **HV** -- High Voltage.
- **HVPS** -- High Voltage Power Supply.
- Low Energy EEDs -- Hot-wire initiators, squibs, blasting caps, etc.
- **Misfire** -- That which occurs when there is no evidence of detonation or energy release after pulsing the firing circuit.
- **Partial Firing** -- When one or more of the explosive charges in an experiment fail to initiate. Often significant quantities of unreacted explosives are scattered on and around the firing mound.
- **PFN** -- Pulse Forming Network. (includes pin boards and pulse boosters).
- **Roadblock** -- A roadblock is established by having a DX Division employee or trained Knowledgeable Person (Clearance Patrolman) in the road to stop traffic. The roadblock may be an employee with a radio, or an employee with a radio and a vehicle. This person maintains contact with the Firing Leader and the Access Control Office as necessary.
- Safety Gate -- A gate at the entrance to a Firing Site. The last gate before hazard is encountered. A safety gate may be interlocked.
- **Test Mode (Firing circuit)** -- A condition in which firing circuits may have power on them, while clearance conditions are not met, by use of a special key and a special procedure. Administrative requirements for using test mode are defined in site-specific SOPs. Neither detonators nor explosives are connected to the firing circuit in test mode.

5.0 **RESPONSIBILITIES**

5.1 **Personnel Responsibilities**

5.1.1 Firing Leader

Shall have immediate responsibility for the operational safety of an operation, and shall be the final authority on questions of safety and procedure during operations at a Firing Point. Also, the Firing Leader is:

- Knowledgeable about group SOPs and operations.
- Responsible for selecting or confirming the choice of the appropriate clearance plan (hazard circle) for the experiment, based on experience, knowledge of experiment design, calculations, DOE or DoD guidelines, and weather conditions.
- Responsible for overseeing the safety of the firing crew, other personnel, equipment, and facilities at the firing site. Responsible for the safety and security of the firing operations.
- Responsible for personnel control on the firing mound or in the firing chamber.
- Shall not permit firing until all personnel within the hazard zone of the experiment are in safe shelters, or are removed from the hazard zone.
- Responsible for firing keys during firing operations.
- Ensures that safety and operational equipment is used properly.
- Participates in inspections; ensures that any defects found during routine maintenance and inspection are corrected by the appropriate personnel.
- Assists in critiques and accident investigations; reports occurrences.
- May delegate some responsibilities to authorized personnel.

5.1.2 Access Control Officer

- Participates in clearance procedures as appropriate. Interacts with Firing Leader for firing operations.
- Interacts with Lead Clearance Patrolman during a clearance.
- Administers personnel access into firing areas.
- Responsible for managing the exchange badge process, both pictured exchange badges when used for Knowledgeable employees, and visitor badges.
- Responsible for the flow of personnel to and from firing areas.
- Verifies that requirements for visitor access are met. Maintains visitor access documents and records.
- Is the single point of contact between the firing sites and the Fire Department.
- Frequently handles communication to DX-4 Group Office, DX Division Office, and security personnel, on behalf of the Firing Leader.

5.1.3 Clearance Patrolman

- Assists activities in the firing area, including communications, traffic, and visitor control, when a clearing or firing operation is in progress.
- Responsible for the successful performance of clearance processes.
- Erects and controls barricades as necessary along access routes. Locks safety gates with key controlled by the Firing Leader or Lead Clearance Patrolman as necessary; posts warning signs for approaching traffic and removes barricades when clearance is lifted.

5.2 Required Reading

5.2.1 Each employee who participates in firing operations must read this SOP, other applicable general SOPs, and the Site-specific SOP(s) applying to the firing site(s) used.

5.2.2 The DX-4 Group Leader or designated line supervisors will determine who must read these SOPs.

5.3 Training

5.3.1 All training is to be in accordance with the DX Division Training and Qualifications Manual. Explosive operations shall be performed only by personnel with proper training and supervisory approval.

5.3.2 Supervisors are responsible for on-the-job training, documentation of on-the-job training (as required), detailed instruction, and for monitoring the operators for competence and adherence to instructions.

5.3.3 All personnel conducting or involved in on-site preparation or firing activities shall have read, understood, and agreed to adhere to the established procedure and requirements of this SOP, the DX Division Operations Manual, the DX Division Electrical Safety Guide, and the DDX-DO: SOP 07 Division Emergency Guide, and the local Building and Site Emergency Plans.

5.3.4 All visitors present during a firing operation shall have read, understood, and agreed to adhere to the Visitor Instruction Packet and to the instructions given by the Firing Leader or his designee.

5.3.5 The Fire Department shall be provided with the Visitor Information Packet, and the Experiment Information packet (MSDSs of hazardous materials) for each experiment they attend.

5.4 Waste Minimization/\Waste Management

5.4.1 Waste minimization will be handled according to the Waste Minimization section of the DX Division Operations Manual and the LANL ES&H Manual, AAR 10-8.

5.4.2 Waste generated from firing operations must be reduced as much as technically and economically feasible. Material substitution, good housekeeping, and hazard segregation must be incorporated into all waste generating activities, in order to meet this objective.

5.4.3 All waste will be handled according to the DX-DivisionO: SOP 01 Waste Management in DX Division and the LANL-ES&H Manual, LLIR 404-00-03.0.

6.0 **PRECAUTIONS AND LIMITATIONS**

6.1 Administrative

6.1.1 Appropriate Standard Operating Procedures (SOPs) or Special Work Permits (SWPs) shall be available before any explosives operation is performed. Such SOPs or SWPs shall be available at the site of the operation and shall be understood and obeyed. When operations will be performed that will change or bypass these procedures or introduce additional hazards, a Special Work Permit (SWP) or another SOP will be

written and approved to cover each operation.

6.1.2 Any major departure from previously approved experiment configurations must be reviewed by the <u>DX-4</u> Group Leader or designee before firing. A change in configuration includes any change in hazard resulting from alterations in firing protocol, materials, shrapnel potential or direction, heating methods, invasive diagnostics, electrical equipment, location on firing mound, or any other modifications.

6.2 Identified Hazards

Explosives, high voltage, x radiation, laser radiation, chemicals, and normal industrial hazards are the hazards identified with firing operations. These and other hazards associated with firing and other DX-4 operations are described here, in the DX-4: SOP 03 General Safety SOP, and other operation- or site-specific SOPs. Some of the general hazards to be aware of are:

- Explosives testing is loud. Hearing protection must be provided at all operations where there is a potential for hearing damage.
- Electrical hazards exist due to the firing circuits and High Voltage circuits or those used to power the circuits that are used to gather data.

- Lightning is a hazard, particularly where explosives are present. All operations involving explosives are suspended during electrical storms in accordance with the DOE Explosives Safety Manual. Any person perceiving a safety hazard from lightning may suspend the operation.
- Cranes and crane operations, are discussed in the DX-4: SOP 06 RRepetitive-Type High Consequence.
- Vacuum and high pressure lines or vessels, or use of HE under vacuum, present serious mechanical and explosive hazards which are discussed in the DX-4: SOP 23 ₩Vacuum Use iin Field Tests.
- Radiography is covered by site-specific Firing SOPs, the DX-4: SOP 17 Flash X-Ray Generators, and the DX-DO: SOP 06 RRadiological Controls.

6.3 General Considerations

6.3.1 Access to Firing Areas and Firing Sites

Access to all DX-Division Firing Areas is administratively controlled by the issuance of keys and through access control procedures detailed in the General Access SOP and Firing-Area-specific SOPs. Firing Areas are entered through key-operated gates. During hazard<u>ous</u>-operations, firing Sites are entered with permission of the Firing Leader Θ r the Firing Leaders Θ Designee.

DX-4 knowledgeable personnel and other knowledgeable personnel gain access to the firing areas by using administratively-controlled keys. All other individuals must clear through either the Access Control Office (for TA-15, TA-36, and TA-39), the DX-1 Group Office (for TA-40), the DX-2 Group Office (for TA-14), or the Administrative Office at TA-39 before they will be allowed access to a firing area. Qualified Office personnel instruct visitors on the site hazards, have them read the appropriate visitor information, and enter their names in a log. Access Control Procedures are discussed in detail in DX-4 Access Control SOPs including "General Access Control."

6.3.2 Explosive (Load) Limits During Firing Operations

The firing load limit is the maximum amount of explosive that may be fired at a firing site without special authorization. The maximum amount may be reduced by location of the experiment relative to the portglass and the bunker. See site-specific SOPs.

| Building or Site | Limit (kg) | Limit (lbs) |
|------------------|-------------------|-------------------|
| TA-14-34 | see site-specific | see site-specific |
| | SOP | SOP |
| TA-15-306 | 68 | 150 |
| TA-15-310* | 68 | 150 |
| TA-36-3 | 227 | 500 |
| TA-36-6 | 907 | 2000 |
| TA-36-8 | <u>9077</u> | 2000 |
| TA-36-12 | 2268 | 5000 |
| TA-39-6 | 91 | 200 |
| TA-39-57 | 227 | 500 |
| TA-39-88 | <u>9077</u> | 2000 |
| TA-40-4 | 25 | 55 |
| TA-40-5 | 0.45 | 1 |
| TA-40-8 | 10 | 22 |
| TA-40-15 | 25 | 55 |

Typical HE Firing Limits at Firing Sites

*Limits away from the runway at R310 can be exceeded only with the approval of the DX-4 Group Leader or designee.

These limits may be modified by permission of the DX-4 Group Leader through the SWP process.

6.3.3 Personnel Limits During Firing Operations

The number of personnel present on the firing mound during experiment preparation must be minimized, to minimize the number of people injured or killed in an accident and to reduce/ disruptionturbance of the firing crew.

The maximum number of personnel allowed at the firing site when explosives are present is given in the site specific SOP for each firing site. For stated times and purposes, changes in the personnel limits may be authorized by the DX-4 Group Leader or designee.

6.4 **Pre-experiment**

There are a number of limitations that are determined prior to the firing of a experiment. These include identification of the hazard zone, clearance plan, and requirements for Fire Department support.

6.4.1 Hazard Circles

Hazard circles (zones) are pre-defined, and the appropriate size area (not necessarily circular) is chosen for each experiment, according to the hazards associated with the size, materials, configuration, and explosives in the experiment. The choice of hazard circle dictates the particular Clearance Plan which will be used. The area inside the Hazard circle is cleared before the experiment, according to the Clearance Plan for the particular Firing Site. Specifics of clearance plans, and maps of most hazard circles, can be found in site-specific SOPs for the Firing Sites.

6.4.2 Clearance Plans

Clearance Plans have been developed to protect personnel within the hazard zones. Clearance Plans are specified for explosives firing operations, for the production of radiation or pulsed-power discharges, or for experiments that may release toxic material.

Specific details of clearance plans are given in Site-specific SOPs for Firing Operations. Each Clearance Plan is based on a defined hazard circle within which all personnel must either be excluded or inside a bunker. Before the experiment, a clearance procedure is used to locate personnel within the hazard area, remove them, and then physically block entrance to the area until the experiment is done and the area is safe again.

- At TA-15 and 36, Clearance Plans are called A-Minor, A, B, and C, increasing in radius by increments of 250 meters. <u>(See Attachment 3)</u>.
- At TA-39, Plans are called levels 1, 2, 3, 4, and 5, and a separate safety gate exists for each level, at greater and greater distances from the Firing Site.
- At TA-40-4, two hazard circles exist.
- At TA-40-5, -8, and -15 and TA-14, a single hazard circle and Clearance Plan is used for every experiment at a given Firing Site, based on the largest experiment that will normally be fired at that site.

Provision for large experiments can be made for any area at any time, using the SWP process.

6.4.3 Clearance Notices

When a experiment is planned, a notice will be posted in one ΘOr more of four places, depending on the firing area:

- Area K-I, Area III in the Access Control Office at TA-15-4446
- TA-40 firing area at TA-22-90, TA-40-1 and TA-15-4446
- TA-39 on the experiment board in TA-39-2 and TA-15-4446
- TA-14 in R446 and the DX-2 Group Office at TA-9-21 and TA-15-446-

The Access Control Office at R4446 will be informed of every experiment, or series of experiments regardless of location. The notice will include the firing point, the date and time scheduled for firing, the level of the Clearance Plan, the Firing Leader, experiment number, and other pertinent details. This notice will remain in place until a safe condition exists.

6.4.4 Clearance Checklists

A "Clearance Checklist" is used by the Firing Leader or Clearance Patrolman for each Clearance Plan. Checklists may indicate the area to be cleared, the hazard radius, traffic control requirements, firing data, clearance announcement requirements, the names of the Lead Clearance Patrolman (if applicable) and Firing Leader, and other information about the experiment. Clearance checklists are included in Firing Site SOPs. They may be part of the firing checklist.

6.4.5 Fire Department Notices

Fire department access to firing areas is controlled to avoid exposing the firemen to explosive or other hazards, but access must be rapid in case of a fire.

6.4.5.1 The Access Control Office at TA-15-446 will be notified if Fire Department activity is needed at any firing area. Access Control Personnel communicate with and advise the Fire Department when they are needed, and arrange for access to be available, rapid, and safe.

6.4.5.2 When the Fire Department is called to stand by, the hazardous materials in each experiment must be identified, and a packet of MSDS forms prepared, in case of a fire involving the experimental assembly. If the Fire Department is called to fight an unexpected fire that is caused by a experiment, it is the Firing Leader's responsibility to inform the Fire Department of the presence and identity of all hazardous materials.

6.4.5.3 Fire Department access is discussed in the site specific SOP for each Firing Site.

6.4.5.4 If more than one experiment is fired with the Fire Department on standby, the Firing Leaders, Access Control, and the Fire Department will be in agreement that the first experiment is complete and the area is safe, before the second experiment can proceed.

6.5 **Operations with High Explosives**

Explosives operations usually begin with the receipt and storage of explosives and explosivescontaining devices. Preparations of tests (assembly, gluing, etc.) can then be performed. These operations are described in the following SOPs: on DX-DO: SOP 03 Packaging and Transportation of Hazardous Materials. DX-DO: SOP 08 HE Storage, and DX-4: SOP 05 Preparation Room Operations Explosive Charge Handling and Assembly-.

6.5.1 Handling and Transfer of Explosives

The general precautions for handling HE are given in the DX-4: SOP 03 General Safety SOP. Particular caution should be exercised in the movement of HE. Explosives will not be transported over walkways which are hazardous because of ice, snow, weed overgrowth, or other adverse conditions. Explosive handling shall be permitted only where handling areas are free of obstructions.

- Experiments should be carried to the Firing Point with attention to footing and to tripping hazards such as sand, weeds, and cables.
- Experiments must be placed by DX-Division knowledgeable personnel under the direction of the Firing Leader.
- Only qualified operators may operate cranes or fforklifts used to lift explosives assemblies. All lifts involving explosives are to be considered high-consequence lifts.

6.5.2 Tools and Materials

Various tools and materials may be used <u>on the Firing Point</u> in the assembly of an experiment and the associated diagnostics. Equipment and materials not specifically allowed by this and other DX-4 SOPs (with attachments) and SWPs is forbidden. In experiments involving other groups, equipment needed to prepare their part of the experiment is permitted on the firing point only if it is covered by a DX-4 SOP or SWP, or an approved SOP from that group; and if its use is not prohibited by the Firing Leader.

Mechanical and Thermal

- Ordinary hand tools may be used near the charge, but may not be used to strike, cut, or otherwise work on the charge. The only forming and cutting operations on solid explosives which may be performed as a part of the assembly procedure are the hand forming of PPBX-N110, C129, XTX, Composition C, and the cutting of Primacord and DuPont Detasheet with a razor blade. Bending of DuPont Detasheet explosive is allowed, as long as the radius of the curvature is greater than four times the sheet explosive thickness, to prevent tears.
- A staple gun may be used to secure wires or other non-explosive items to the charge stand or container.
- Equipment listed in Attachment 4 may be used on the firing point during the setting of the experiment.
- _When any of this equipment is used, appropriate shielding shall be used to prevent sparks, heat, or impact from reaching the explosive.
- <u>NNo</u> powered hand tool or appliances (except for a soldering gun) shall be used within <u>660</u> cm (2 ft) of bare explosive without an SWP. Bare explosive is explosive that is <u>nn</u>ot protected by a barrier that can withstand fragments, sparks, heat, or tool bits <u>{</u>(and broken tool bits) from damaging the explosive.
- <u>SS</u>oldering may be done with a battery powered soldering gun or a soldering gun that <u>dd</u>oes not remain hot when not in use. The hot tip is <u>always</u> kept at least 30 cm (1 ft) ffrom any bare exposed explosive(s), and is kept one meter (3 ft) or more from any <u>eexposed</u> explosive(s) when not in use. <u>(See Attachment 2)</u>.

Electrical

Any 110 volt alternating current power source >50 vac that is used when personnel are present on the firing mound shall be Ground Fault Circuit Interrupt (GFCI) protected, unless GFCI renders the equipment inoperable (e.g. inductive motors). Equipment using a 110 volt alternating current must be kept a minimum of one meter from exposed explosives, or else and SWP will be used. Appropriate measures shall be taken to prevent such equipment from any contact with explosive(s). An insulating barrier such as Plexiglas between the power source110V and the explosive allows closer proximity. After the mound area is clear of personnel, GFCI protection is not required a normal 110 volt alternating current circuit may be used.

6.5.3 Electronic Devices and Diagnostics

Many experiments have electrically charged pins or switches incorporated into the assembly for diagnostic purposes. A variety of pin and gauge diagnostics are used in contact with bare explosive and propellant assemblies. It may be necessary to test experimental equipment and pin circuits with pulse-forming-network (PFN) pin voltage

or other electrical sources turned on. General precautions for energizing these devices are given here. Details are specific to individual diagnostics and firing sites.

- Pin circuits may be assembled and attached to the transit-time electrodes with crimp connectors or alligator clips. Pin circuits and potential shorts in explosive monitoring pin and foil circuits may be checked using an approved ohmmeter powered with a 1.5-V battery such as a Simpson 160 or 260. The meter must be certified as specified in DOE Explosives Safety Manual latest revision.
- Pins that are in direct contact with the explosive (co-ax, foil, painted switches, etc.) are often wired to separate plugs (known as H.E. plugs) so they can be identified and isolated from the PFN voltage supply. These plugs must be specifically labeled and verified by DX-Personnel. These special plugs must never be connected to the PFN when the power is on. Before the firing party retires to the control room for a firing operation, the explosive pin and foil monitors are connected to the PFN with the power off.
- If the voltage and current are limited to less than 5 V and to 200 mA, then the power can be applied to the diagnostics without clearing the firing site.
- If the diagnostic power supply applies voltage greater than 5 V, or current >200 mA, then the supply is controlled by the firing control panel so that voltage cannot be applied to the gauge unless the firing panel/voltage key is used in the test or Fire Mode. If a test mode is available and is used, then the clearance for the experiment must be in place, before applying current or voltage to the diagnostic on the bare explosive. After all personnel are in the control room or bunker, the PFN voltage can be turned on. If it is necessary to return to the firing point, the voltage to the HE plugs will be turned off and remain off until everyone has returned to shelter.

6.5.4 Vacuum

Some experiment designs call for the use of a vacuum chamber. Any experiment that requires a vacuum will comply with the procedures in the DX-4: SOP 223 Vacuum Use in Field Tests.

6.5.5 Fissile Material

All weapons-mockup experimental assemblies are monitored for fissile material according to pit-verification procedures described in the site or experiment specific SOPs. The Firing Leader is responsible for overseeing monitoring. -Another member of the firing crew verifies the monitoring.

6.5.6 Gas Handling

If the experiment involves filling a pressure vessel with gas or using methane in a confined assembly, special gas-handling procedures must be followed. These are described in the DX-4: SOP ± 10 , Filling Pits with Gases at Firing Points. All other gas handling operations (e.g. Ar, Xe flashers, X-rays, and low pressure hydrogen fills) will be done in accordance with AR 14-1 or or applicable LIR.

6.5.7 Assembling Experiments on the Firing Mound

Experiments may be assembled at the firing mound. Experiments delivered as separate components are assembled by the firing crew and placed on the experiment stand. The firing crew shall take special care to ensure that all piece numbers have been recorded during assembly to allow accurate and complete reporting of expended materials.

- Ordinarily the firing crew will not bring more explosive to the firing mound than will be fired in one experiment. Extra explosive, or experiments in a series, will be kept in a service magazine or a preparation room until the previous experiment is complete. Rounds for small arms are an exception.
- Explosives handling on the firing mound should be kept to a minimum.
- All experiment assemblies and support stands shall be designed to be stable once the assembly is placed on the experiment stand.
- Explosive charges may be assembled on the firing mound or in the charge preparation rooms using approved glues, tapes, clamps and jigs, and chemicals, as described in the DX-4: SOP_-005, Preparation Room Operations Explosive Charge Handling and Assembly. When necessary, argon, methane, propane, and xenon gases may be used for light generation, intensification or quenching. Chemicals not listed as permitted in preparation rooms require an SWP for use in conjunction with explosives on the firing mound.
- All firing cables, vacuum lines, electrical cables, etc., used in an explosive assembly must be protected and secured so that the experiment will not move if anyone accidentally steps on or trips over the lines. It is good practice to route firing cables well away from diagnostic cables.
- Sandbags, experiment design, or other measures will be used when necessary to mitigate (or control) blast and fragments per TIC-11268, DOE Manual for the Prediction of Blast and Fragment Loading on Structures, AMCP 706-181 (Army Material Command Pamphlet), and NWC-TP 5780 (Naval Weapons Center-Technical Publication).
- Whenever possible, detonators shall be attached to the explosive as a last step in the assembly of the experiment.

6.5.8 Charge Protection from Weather

A cover or tent may be set up on the firing mound to shield the charge and associated equipment from the sun and weather. The Firing Leader will make sure that the cover or tent is secured against wind; if necessary, solid anchors will be used, including the anchor points on the firing chamber.

Lightning is a hazard, particularly where explosives are present. All operations involving explosives are suspended during electrical storms in accordance with the DOE Explosives Safety Manual. Any person perceiving a safety hazard from lightning may suspend the operation.

6.5.9 Unattended Assemblies

Experiment assemblies may be left unattended ((Security precautions must always be ttaken into consideration) on the firing mound during normal working hours, provided the exclusion area is cleared of all personnel, the safety gate is closed and locked, and the group office is notified as appropriate-(See 6.4.3), and the Access Control Office is are notified. Prudent practice dictates that the number and duration of unattended experiment assemblies on the firing mound shall be kept to a minimum.

6.5.10 Working Alone

DX-4 knowledgeable employees may only work alone in an area that has an approved "working alone" procedure in the site-specific SOP for that Firing Site. When working alone with HE, employees will use the "working alone" procedure appropriate for the particular work area. The minimum requirements for working alone are given in the DX-4: SOP 03 General Safety SOP. Performing firing operations alone has the following requirements:

+1) Only authorized Firing Leaders may fire explosives alone.

- All operations shall be performed in accordance with existing SOPs/SWPs.
- Working alone on firing operations is permitted only during normal working hours or when Access Control is manned.
- Personnel shall be assigned in a manner such that each worker's presence is periodically monitored via radio or a physical check, in case assistance becomes necessary.
- Any person conducting firing operations alone will be in contact with the Access Control Office.

22) A Firing Leader working alone will notify Access Control before taking explosives to the firing mound.

33) When a proper clearance can be accomplished and assured, Firing Leaders may conduct firing operations alone.
6.6 Safety Keys

Each safety key described in this section operates a switch that must be in the off or open position before the key can be removed. (The high-voltage disconnect key at R306 and R310 is the sole exception, because it unlocks a padlocked junction box, rather than a switch). The keys and their function described are typical. Detailed descriptions of functions are found in the site-specific SOPs.

Keys will never be left in unattended equipment. This includes portable x-ray machines, 3B and 4 lasers, microwave sources, and other equipment. The Firing Leader will control keys to portable x-ray machines when people are on the firing mound.

- **Firing Control Key** -- Each firing circuit is locked, and each unit can only be operated with the safety key. Only authorized Firing Leaders have keys to these locks. Spare keys are locked in the Access Control key box, and require DX-4 Group <u>LeaderOffice</u> approval for removal. These keys will be under the control of the Firing Leader during experiment assembly.
- **CDU Key** -- The CDU key controls the power supply that furnishes the high voltage to the CDU. The Firing Leader or Chamber Operator has control of the CDU key when personnel are working on or around the firing point when explosives are present₋.
- **Voltage Key** -- The voltage key(s) control(s) all high voltage to diagnostic circuits on the firing mound.

6.7 Firing Systems

There are several firing systems used at DX-Division firing sites. Although configurations can be quite different, a firing system generally consists of a control system, a power supply (low or high voltage), a CDU, triggering units, and the connections (cables) to the detonators or EEDs. Any changes or modification to firing control equipment must be reviewed by the "Firing System Safety Review Panel". This panel is part of the Explosive Review Committee.

6.7.1 Firing Units

Descriptions of the various types with common precautions follow:

6.7.1.1 Category I CDUs. This category is restricted to firing units where both the CDU and the high-voltage supply are located inside the firing bunker, or the CDU is in the CDU bunker. They are designed to fire several detonators on long (>5 m) firing cables. (For example, the standard 50-point unit.) All current firing units in this category attach to

an external high-voltage supply. Detonator cable connections are made at the CDU after the hazard zone has been cleared and the bunker door shut, except at TA-40-5.

6.7.1.2 Category II CDUs. There are two groups of Category II CDUs, those with the HVPS remote from the firing unit, and those in which the HVPS is included in the unit.

- Separate HVPS. Certain detonator types and experiment assemblies must be fired with the CDU less than 2 m from the charge. These firing units have the CDU located on the firing mound. The control circuit, HVPS and the triggering unit are located in the bunker. The detonator may be connected to the CDU before clearing the hazard zone.
- **Incorporated HVPS**. Firesets with unique applications may have the HVPS incorporated into them. No firesets with self-charging capability will be used unless a site-specific SOP or a current SWP sanctions that use.

6.7.1.3 Low-Voltage Initiator Systems. These specialized systems are generally used to ignite low energy EEDs such as squibs, blasting caps, and ignitors. These operations often require an SWP, although some of these operations <u>are</u> covered under Site-specific SOPs for some firing sites, and do not require an SWP to be used at those sites.

- Low Voltage CDU. This is a low-voltage (50-V) CDU system used to ignite pyrofuse initiators, electronically initiated primers, and similar devices. This CDU has an internal supply, but it is powered through relays controlled by the firing key, arming switch, and firing switch.
- AC Firing Unit. This is an isolated 115-V ac and 300-V ac firing unit used primarily to operate solenoids that operate mechanical primers to fire guns, and to fire other experiments requiring mechanical initiation. The output is supplied by a relay controlled by the firing key, arming switch, and firing switch so that power cannot accidentally be applied at the output of the firing unit. The firing sequence is identical to that used for high-voltage CDUs. The 115-V ac and 300-V ac outputs use Reynolds 21 and 31 connectors, respectively, so that they cannot be confused with each other or with other connectors.

6.7.1.4 Attachment 5 is a list of Capacitive Discharge Units (CDUs) and firesets that hasve been provided to define the associated electrical hazard inherent in each and any hazard mitigation incorporated in the design of each. Procedures implemented for the operation and maintenance of each unit shall be based upon this hazard definition.

6.7.2 Firing Cables

Firing Cables must be clearly identified $\Theta \underline{O}r$ identifiable. Care will be taken protect these cables from damage by routing them outside normal walkways (where possible) and

avoiding blast mats or other objects with sharp edges. They are separated from other cables associated with the experiment as much as possible, to avoid confusion leading to misidentification, and to prevent any possibility of induction of spurious current in diagnostic cables.

- When all firing cables have been laid out, they will be taped to the experiment table or otherwise secured to prevent any strain when they are connected to the detonator.
- Firing cables shall not be inserted into the CDU enclosure nor connected to an expendable CDU until people are accounted for and in protected areas, and the Firing Leader is ready to begin the arming process.

6.7.3 Firing System Interlocks

The ability to fire a experiment is limited, as a safety measure, by a set of interlocks which assure that doors and gates are closed and other safety measures are met before the experiment can be fired. The interlocks operate a relay that deactivates <u>the</u> high voltage power supply (HVPS) when the interlocks are not made. Other interlocks deactivating the HVPS include a delay siren relay and a foot switch or a second hand switch. A firing key switch controls the high voltage to the firing unit(s). Details of the interlock systems are given in the site-specific SOPs. In general:

- The firing-bunker doors are interlocked with the firing circuit and must remain secured throughout the firing sequence. The sole exception is the Control Room door at TA-40-5. If any special firing procedure requires the door to be opened, an SWP will be written for each.
- All HVPS units used in the firing system or delivering HV to the mound will be connected to interlocked power.
- All safety systems and devices associated with firing will be checked and documented at least annually. The most recent and best schematic of the firing circuits is to be on file at the site of the operation and will be updated as required.

6.7.4 Bypass Systems

A bypass system exists at some DX Division firing sites. These bypasses may allow the CDUs to be charged and triggered without the usual audible and visual warnings and/or without closing the interlock systems. Extensive constraints on the use of these systems are described in site-specific SOPs for individual Firing Sites.

6.7.5 Final Arming and Energizing

Final arming procedures are specific to each Firing Site and are described in site-specific SOPs.

6.8 Camera and Optical Diagnostics Room

Direct optical access to an experiment can present hazards inside the firing bunker, either from port-glass shards or experiment fragments. In general, rooms in which there is line-of sight access to a experiment, such as through the port glass in a camera room, should be evacuated and have the door closed during experiments, whenever possible. The Firing Leader may prohibit people from entering the optical diagnostics room during any given experiment or operation.

6.8.1 Commercial Rotating-Mirror Cameras

Commercial Rotating-Mirror Cameras -used in DX Division will contain any debris from a broken mirror. Even so, it is prudent practice to keep the door to the camera room closed and permit no one in the camera room when the rotating mirror in the camera is operating. This also protects operators from the noise generated by the spinning mirror. Some firing sites do not have a separate camera room, and may use commercial cameras in the bunker.

6.8.2 Home-Made Rotating Mirror Cameras

Home-Made Rotating Mirror Cameras used in DX Division are not proven to contain debris from a broken mirror. Therefore, they may only be used in a separate camera room, and it is required to keep the door to the camera room closed and permit no one in the camera room when the rotating mirror in the camera is operating.

6.9 Warning Signals

Warning signals that may consist of lights, horns, and sirens are present at all DX Division firing sites. Site-specific SOPs describe the exact warning to be found at any particular firing site.

- At all firing sites, an audible signal, a horn or siren, is sounded for more than one minute prior to firing. An "all clear" signal of two or more short blasts shall be used to denote the "all clear" condition on all operations involving a siren.
- When warning signals are tested, or if a "nonhazard" test includes warning signals, this should first be announced over the radio and public address (PA) system.

6.10 Explosive Contamination of Firing Point

If the firing point is contaminated with HE by a partial or incomplete detonation, or with pieces or powder from explosives, the point shall be decontaminated <u>ff</u>ollowing appropriate <u>pp</u>rocedures before it is used again.

6.11 Housekeeping of Firing Points

All Firing Points shall be cleaned of experimental firing site debris as soon as practicle. Firing site debris should not be left on the mound during inactive periods. For example; a series of experiments in a given week may be cleaned up at the end of the series.

7.0 PROCEDURAL STEPS

7.1 Test Assembly

- Upon delivery of explosive at the site, the Firing Leader shall make sure that the safety keys (at TA-39, the control panel key) are secured in the lock box or under the control of the Firing Leader. Keys will stay secured until the appropriate point in the firing sequence.
- When a charge is on the firing mound, the Firing Leader or an assistant will control access to the firing mound. At least one knowledgeable person shall be present at the firing site and be responsible for (ref. 6.5.9) the explosive while it is on the firing mound, or else the firing site will be closed and appropriate notices posted.

7.2 Fire Department Procedures

For experiments requiring the Fire Department, the Firing Leader will contact the Access Control Office at least one day preceding the scheduled experiment. The Access Control Office will contact the Fire Department and will notify the DX Division Office of the scheduled firing time and advise them that the Fire Department has been called.

- On the day of a experiment, the Access Control Officer will be responsible for maintaining communications with the Fire Department at reasonable time intervals, according to the needs of the Firing Leader.
- When the experiment is fired and clearance(s) lifted, the Fire Department is allowed to enter the area. A DX Division employee will remain on-site until the Fire Department leaves.
- Fire Department access procedures are discussed in Site specific SOPs for Firing Sites.

7.3 Clearance Procedures

It is imperative that the hazard zone be carefully cleared before any potentially hazardous operation is initiated, because people might mistakenly be within the anticipated hazard area for explosive tests. Only DX Division Knowledgeable Personnel or people accompanied by such will be allowed to remain within the hazard zone. Persons remaining within the hazard zone must be in a firing bunker or designated hardened building, and not in either a magazine or a charge preparation room, unless the preparation room is hardened.

Detailed clearance procedures for each firing site are given in the site-specific SOPs. However, a number of procedural steps and restrictions are common to all DX-Division firing activities:

• The Firing Leader will make every effort to notify the Access Control Office the day before the scheduled firing time. Posting of the Clearance Notice is the first step in assuring safe

operations. Explosives shall never be moved to the firing mound for firing without notification of Access Control (if Clearance Notice was not posted).

- The extent of the clearance for a given experiment is the responsibility of the Firing Leader conducting the firing operation. A Firing Leader may decide to clear to a larger hazard zone because of a larger explosive mass, a new energetic compound, a special experiment configuration or fragment potential, or for any other appropriate reason.
- It is strongly recommended that there be no work done on explosives nor handling of explosives while a experiment is being fired nearby. The firing leader will evaluate this on a ecase by case basis.
- Simultaneous firing site clearances are discouraged for nearby firing sites. If operational necessity or efficiency requires, two or more sites may fire under the same clearance operation if the Firing Leaders determine that no unusual hazards will be created by more than one firing operation under a single clearance. However, under no circumstances shall one firing site commence a clearance while a nearby firing site is proceeding with a Firing Sequence. Otherwise radio net communication may be confused, or clearance personnel may be endangered.
- More than one experiment at a firing site may be fired under a single clearance for efficiency. Clearance procedures in this case are site-specific. More than one experiment under a single clearance shall not be permitted if a fire is probable.
- If the Fire Department is on standby, the Firing Leaders, Access Control, and the Fire Department will be in agreement that the first experiment is complete and the area is safe, before the second experiment can proceed.

7.3.1 Steps Before the Clearance

• Selection of clearance plan

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- Determination of fire department requirements
- Posting of clearance notice and fire department notice
- Announcement of clearance (site specific)
- Briefing of clearance patrolmen and access control

7.3.2 Clearing the Firing Site (Hazard Zone)

During clearance procedures, the cleared area is established and maintained by using locked gates, interlocked gates, barricades, and/or roadblocks. The emergency warning lights on a roadblock vehicle will be operated throughout the clearance operation. The clearance procedure lists locations and procedures for closing the hazard zone. The clearance checklist will be filled out as clearance is established. Personnel remaining within the area must take shelter.

In the process of checking and clearing buildings within the hazard area, a building with all of the doors locked or external padlocks in place will be considered empty with exceptions covered in site specific SOPs. The Clearance Patrolman will enter or contact all unlocked buildings and notify the occupants, if any, of the planned experiment and that they must either leave the hazard area or remain in a shelter area until the All Clear is sounded. If a building is unlocked and there is no response to hailing, then the door will be locked, if possible, from the outside, and the building will be considered empty. An unattended vehicle will be considered evidence that a person is in the hazard area, and that person must be found and directed to a safe location before the clearance is considered complete. The Clearance Patrolman will report the location(s) of all personnel within the hazard area to the Firing Leader.

When the preparation of the experiment is complete, the clearance is started. During the clearance, patrolmen conduct the site-specific plan to assure that personnel are out of the hazard area or otherwise protected, and that no unaccounted person is in hazard zone. Specific clearance procedures generally include the following:

- Clearance checklist
- Access Control informed
- Other Firing Leaders informed, if necessary
- Clearance patrolman executes site-specific procedures, usually includes:
 - sweeps, visual and physical
 - closes gates and interlocks
 - establishes roadblocks, barricades
 - informs Firing Leader that tasks are done and the area is cleared

7.3.3 Post-Experiment Procedures

- Firing staff waits for area to be cleared of explosive products and shrapnel hazard.
- Firing Leader inspects firing area.
- Firing Leader makes preliminary check for fires.
- Firing Leader declares area safe with regard to explosive hazards.
- All firing staff make a thorough inspection for fires.
- Firing Leader lifts the clearance: informs clearance patrolmen and Access Control of safe area.
- Fire Department and other access allowed.
- AAll personnel in the hazard area will be informed when the area is all clear.

7.3.4 Unexpected Breaking of a Clearance

7.3.4.1 If anyone passes a blockade and enters a hazard zone:

- The person manning the roadblock shall immediately notify the Firing Leader to **STOP** the firing sequence.
- The person manning the roadblock <u>shall remain at his/hher station</u> and shall not attempt to chase the persons who have passed the roadblock.

. Maga • The Firing Leader shall immediately discontinue the firing sequence, confirm receipt of the message aand place operations in a safe condition.

7.3.4.2 If any interlock is opened, the Firing Leader must:

- immediately discontinue the firing sequence and investigate.
- reclear the area before restarting the firing sequence.

7.3.5 Clearance Outside Normal Working Hours

- If a experiment will be fired outside of the normal work day (8:00 AM to 4:00 PM), or if explosives will be left overnight, the Firing Leader will notify the Access Control Office, Access Control will call DX-DO, PTLA, and EM&R. Clearance procedures modified under an SWP may be used for experiments fired outside normal working hours.
- For a late experiment, or if explosives are left overnight on a firing pad, the firing area access gate will be left in the closed position. When the hazard zone extends beyond the boundaries of the site at which the experiment is to be fired, a more extensive exclusion area will be used.

7.4 Detonator Connections and Arming

Arming begins when any part of the firing ecircuit is energized. Arming commences only when clearance procedures are completed.

7.4.1 Continuity Measurement (Resistance Measurement, "DCOing")

Resistance of a detonator is checked only with a meter (DCO) certified by DX-1, unless that check is performed after the area is cleared for firing.

- **Category I CDUs:** Usually the resistance of the detonator and cable is measured from within the bunker, just before hooking the cables to the CDU. The clearance is in place.
- **Category II CDUs**: The resistance of a detonator and cable is measured on the firing mound, before connection to the fireset or during connection to the fireset (depending on the connector type).
- Low Voltage Initiators: Connecting and firing of low voltage initiators such as squibs and ignitors requires quite different procedures from firing detonators. Normally, the firing cable is shorted at all times #until the last practiceal moment. The short will be as close as practical to the initiator. Details of procedures for low voltage initiators are given in Firing site-specific SOPs or in SWPs.

Never DCO a Low Voltage Initiator.

7.4.2 Detonator Connection

Exact procedures are found in the site-specific SOPs.

When a detonator is not initially an integral part of the experiment assembly, it is prudent practice to attach the detonator to the firing cable before attaching it to the experiment. A visual check will assure that the firing cable is in view, and is not hooked to the firing unit, before the detonator is attached. The detonator is fastened to the firing cable, then continuity (of both cable and detonator) is measured, using a \underline{DDCO} approved by DX-1.

Whenever possible, detonators shall be attached to the explosive only as a last step in the assembly of the experiment. When Category II CDUs are used, all HV cables to CDUs **except the HV monitor cable** must be shorted before installation of detonators. Exceptions must be specifically discussed in Firing site-specific SOPs, or in an SWP. The detonator firing cable(s) may be connected to the CDU or alternate initiation device under the supervision of the Firing Leader or a designee.

7.4.2.1 CDU inside bunker. Make detonator cable connections at the CDU **after** the hazard zone has been cleared and the firing sequence has been started. The high-voltage supply cable may be disconnected inside the bunker and shorted, to assure that the CDU cannot be charged. When the HVPS cable is hard-wired to the CDU, this connection is left, and other safeguards prevent charging of the CDU.

7.4.2.2 CDU outside bunker. When the CDU is outside the bunker, the Firing Leader must connect the detonator to the CDU before clearing the hazard area. Because this is a more complex operation, use the following procedure.

- 1. Do not connect a detonator cable to an outside CDU unless directly authorized by the Firing Leader.
- 2. Before authorizing this connection, the Firing Leader will ensure that;
 - the firing and test circuits are off and locked and,
 - the high-voltage supply cable is disconnected inside the bunker and shorted. This assures that the CDU cannot be charged.
 - HV monitor cable is connected to both the CDU and the HV monitor to assure that no HV is on the CDU.
- 3. With the Firing Leader's authorization, connect the detonator cable to the CDU.
- 4. After the hazard area has been cleared and the firing sequence started, connect the high-voltage supply to the CDU from within the firing bunker.
- 5. After the experiment, check the high-voltage monitor to ascertain that the CDU is totally discharged. Disconnect the high voltage supply, monitor, and

trigger cables.

7.5 General Firing Steps

The following steps illustrate the procedural steps used for firing experiments. Exact procedures are found in the site specific SOPs.

7.5.1 Using a Category I CDU

- exclusion area cleared
- detonators connected to cables (not to CDU)
- final alignment check
- everyone inside, door shut, dropouts set
- interlocks shut, made
- safe condition to fire ascertained (interlocks, observation)
- firing sequence engaged (computer timing sequence, if present)
- DCO
- firing cables connected to Cat. I CDU (CDU inside)
- siren runs for 1 min. or more
- ready-fire switch closed (footswitch or handswitch)
- HV applied to CDU
- Experiment is fired
- check that CDU discharged
- allow time for fragments to fall
- disconnect firing cables
- allow prudent time for detonation product gases to clear before going outside.
- all clear- 2 or more short blasts
- complete firing operations

7.5.2 Using a Category II CDU

- exclusion area cleared
- detonators connected to cables (not to CDU)
- final alignment check
- connect the detonators (with at least one interlock open)
- everyone inside, door shut, dropouts set
- safe condition to fire ascertained
- CDU connected to HVPS and trigger (CDU outside)
- Firing Leader makes connections as last step, then retires to firing bunker.
- computer timing sequence, if present, engaged
- siren runs for 1 min. or more
- ready-fire switch closed (footswitch or handswitch)
- HV applied to CDU

- Experiment is fired
- allow time for fragments to fall
- all clear- 2 or more short blasts
- check that CDU discharged, especially if outside
- disconnect firing cables
- allow prudent time for detonation product gases to clear before going outside.
- complete firing operations

7.6 Special Procedures

The following gives the procedures used for situations that occur occasionally during firing operations.

7.6.1 Misfires

- In case of a misfire, reduce the firing voltage to zero. Check the HV monitor to be sure that the CDU(s) is discharged.
- Turn off the camera/turbine supply (if in use). Once all the circuits are deemed safe and the appropriate firing system cables have been disconnected, personnel shall first attempt to view the firing pad through the optical port or through the camera periscope. Without terminating the firing sequence, look for possible obvious causes (such as an unconnected detonator cable).
- At this time, the firing cable and detonator(s) may be checked for continuity, if possible. This check will be done from within the safety of the bunker. If it is necessary to go to a CDU bunker to do this check, the ten minute wait described below must be completed before the CDU check.
- One or more attempts to fire may be made, at the descretion of the Firing Leader. If the experiment still does not fire, inform Access Control and **wait ten minutes**. Visual inspection may be performed by the person blocking the road, or a person coming from outside the exclusion area to a safe distance from the mound. If it is necessary to go to a CDU bunker to do this check, the Firing Leader and one other person may go, after waiting for ten minutes.
- Be sure the CDU is disarmed before approaching the <u>experimentshot</u>. Before other personnel are allowed to leave the cover of the bunker, one qualified person shall carefully approach and examine the setup to verify that it is safe.
- If an unexpected situation develops on the firing pad posing apparent danger, seek safety inside the bunker then notify the Access Control Office.
- For experiments at elevated temperatures, 10 minutes may be an insufficient wait time, and Group Management should be consulted before anyone ventures near the firing mound. The HE must be below 75 degrees C before anyone goes onto the firing mound.

7.6.2 Partial Firings

In the case of known or suspected partial firing **all personnel will remain inside the bunker.** Notify the DX-4 Group Office and Access Control. A 30 minute waiting period shall be observed. If the explosive is burning, or if there is smoke in the general vicinity, wait at least 15 minutes after these signs have disappeared before approaching the assembly. The following steps and precautions shall be followed:

- Notify Access Control and the DX-4 Group Office.
- Continue to run siren.
- Disconnect and de-energize all electrical power sources connected to the experiment, and turn off the camera/turbine supply (if in use). Disconnect all firing cables (and/or charge and trigger cables) from the CDU, where feasible.
- Ensure that all personnel in the hazard area are aware that a failure has occurred and that they must remain under cover until notified otherwise.
- Check all possibilities for the cause of the test failure from inside the bunker. When all circuits are deemed safe, attempt to view the experiment via the port glass or camera periscope. Alternately, a person can view the firing mound from a safe distance.
- Before any personnel are permitted to leave the cover of the bunker, a **30-minute** waiting period shall be observed.
- A carefully prepared review of the situation in consultation with another knowledgeable person such as line management, a line supervisor, or the ES&H OfficerCoordinator should be initiated.
- Before personnel are allowed to leave the cover of the bunker, one qualified person shall carefully approach and examine the setup to verify that it is safe.
- In the event of an expected test failure containing only detonators or actuators and no HE charge, a 5 minute waiting period shall be observed before going out onto the firing mound.

See the DX-4: SOP 10 Firing Small-and Large-Bore Guns for procedures covering experiments involving projectiles (bullets, shaped charges, etc.) that are fired into targets containing energetic material.

7.6.3 Disarming

- The Firing Leader and no more than one assistant will disarm all experiments.
- The Firing Leader and the assistant (if present) will observe and certify on the Firing Point Checklist that all firing cables are disconnected from the CDU. Cables are removed from the CDU chamber or firing bunker (whichever is appropriate).
- If a Category II CDU is being used, disconnect and short the high-voltage supply cable and the trigger cable.

7.6.4 Aborted Experiments

Either the experimenter or the Firing Leader decides if a experiment should be aborted. Both together determine whether the explosives assembly is safe for return to storage.

7.6.5 Firing Sequence Interrupt or Shutdown

In some cases, it may be necessary for the firing procedure to be interrupted or reversed (e.g. a person intrudes into a hazard area or equipment has malfunctioned). If any of these instances should occur, follow the steps listed in the site-specific SOPs. In general:

- Release the redundant ready-fire switch (foot switch or hand switch).
- First turn off the HV key switch. This allows the voltage to return to zero.
- Check the HV monitor to be sure that the CDU(s) is discharged.
- Disconnect all Det, HV, power supply, and trigger cables going to the firing pad as appropriate.

Firing will be prevented if the drop-out relay of the firing site safety gate interlock circuit or any other interlock is not in a closed position. This can occur because someone has entered the area after the gate was closed. **Do not resume the firing sequence until a complete check of the area inside the gate has been made.** After such a check, the interlocks can be reset and the firing procedure repeated.

7.6.6 Rotating Mirror Cameras

In general, it is prudent practice to stay out of the camera room and leave the camera room door shut when the mirror is running and for one minute after the camera air is turned off, or until the mirror has stopped rotating.

Many rotating mirror cameras have mirrors made of beryllium, which is poisonous when present as a dust. If it is determined that a beryllium mirror has broken while in operation, **do not** open the camera room door or the camera housing. Turn off the camera air and high voltage. Evacuate the building and do not reenter until ESH-5 has evaluated any possible hazards and given permission to reenter. If the housing of the shut down camera needs to be opened to determine that the mirror has failed, leave the room as soon as the failure is apparent.

7.7 Emergency Procedures

7.7.1 Building or Site Emergency

If an emergency situation should occur, follow the <u>DX-DO: SOP 07</u> Building Emergency Plan (BEP)/Site Emergency Plan (SEP) <u>Division</u> <u>Emergency Guide</u>. The <u>DX-DO: SOP 07 Division Emergency</u> <u>GuideBEP/SEP</u> must be available in the building and the operators shall be familiar with its contents. \mp There are Emergency channels on all \pm radios used in DX, they may be used to immediately contact Los Alamos Fire or The \pm Emergency Management and Response Officials.

7.7.2 Personal Injury

In any emergency involving injury to a person or persons, the employee encountering the accident should use good judgment on the procedures to be followed, depending on the circumstances. Decisions made by a DX-4 employee at the scene of an accident will be supported by the DX-4 management. If there is a serious injury or accident, follow this procedure:

- 1. Dial 911 to contact the Fire Department Rescue Squad and ambulance. Say where the emergency is and stay on the line until the operator has finished getting information from you.
- 2. Aid victims if possible, but do not endanger them, yourself, or others. Request first aid and CPR help if needed. Take measures necessary to prevent further damage or injury.
- 3. Dispatch individuals to direct emergency vehicles.
- 4. Notify the Group Office. The Group Office will:
 - notify the DX Division Office,
 - alert guard stations to expect emergency vehicles and personnel:
 - For TA-15: Station 431 (7-4850)
 - For TA-36: Station 223 (7-4051)
 - For TA-40: Station 431 (7-4850)
 - TA-39 Local Access Office personnel will open the main gate to the site, to allow emergency vehicles to enter.
 - call the FMD (Facility Manager Designee) at 8-1-(505) 699-1765.

• call the Emergency Management Office to notify them of the incident

(7-6211 during working hours, 7-7080 after hours).

- 5. Inspect the accident site to see if anything might cause injury to rescue personnel. If possible, consult with the Group Leader or other senior DX-4 employees. Otherwise, the people at the accident scene have the authority to proceed or limit access at their discretion. Fires involving explosives, or imminently involving explosives, will not be fought. All personnel will instead seek shelter in a bunker.
- 6. Continue to give first aid until the Rescue Squad arrives.
- 7. Record accident details including personnel involved, injuries, property damage, and witnesses.

8. Remain at your regular location if you are not directly providing aid.

9. Do not disturb evidence that may be important for later investigation.

7.7.3 Electrical Shock

Any employee who receives an electrical shock must report to ESH-2 for evaluation.

7.7.4 Lasers

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Any employee who receives an injury from a laser must report to ESH-2 for evaluation.

8.0 REQUIRED RECORDS

- Experiment request form
- Experiment schedule
- Expended materials reports
- Explosives Inventory Reports
- Post-Experiment Reports (on file at TA-15-446 Access Control)
- Site Log Books, if applicable
- Clearance checklists (on file at TA-15-446 Access Control)
- Firing checklists

9.0 REFERENCES

- DOE Explosives Safety Manual, DOE M440.1-1, Current Revision
- Army Material Command Pamphlet, 706-181 (Blast and Fragments)
- DOE Manual for the Prediction of Blast and Fragment Loading on Structures,

TIC-11268

- Naval Weapons Center-Technical Publication, 5780 (Blast and Fragments)
- LANL Electrical Safety Program
- DX Division Operations Manual
- DX Division Training and Qualifications Manual

Building/Site Emergency Plans

- Los Alamos National Laboratory ES&H Manual
- DDX-DO: SOP 01 Waste Management DX Division
- DX-DO: SOP 03 Packaging and Transportation of Hazardous Materials
- DDX-DO: SOP 06 Radiological Controls
- DX-DO: SOP 07 Division Emergency Guide
- DX-DO: SOP 08 HE Storage
- DX-4: SOP 03 General Safety
- DX-4: SOP 05 Preparation Room Operations Explosive Charge Handling and Assembly
- DX-4: SOP 06 Repetitive-Type High Consequence Lifts
- DX-4: SOP 08 Firing Small and Large-Bore Guns
- DX-4: SOP 10 Filling Pits With Gases
- DDX-4: SOP 14 Charge Temperature Control During Firing Operations
- DX-4: SOP 17 Flash X-Ray Generators
- DX-4: SOP 23 Vacuum Use in Field Tests
- Los Alamos National Laboratory's Environment, Safety and Health Manual Administrative Requirement (AR) 6-6, "Explosives," (AR) 12-1,
 - "Personal Protective Equipment," and LIR 4402-600-01.0, "Electrical Safety."

10.0 ATTACHMENTS

ATTACHMENT 1÷. Maps

ATTACHMENT 2: Soldering, details of operations

ATTACHMENT 3: Specific Hazard Circles and Clearance Plans

ATTACHMENT 4.- Equipment Approved for Use on the Firing Point During the Setting of a Experiment.

ATTACHMENT 5. CDU Specification Sheet

Soldering, Details of operations:

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As a final step in constructing the shot assembly, it may be necessary to solder electrical leads to it. This operation must be performed carefully, using a soldering gun with a momentary switch, a battery-operated soldering tool, or other soldering gun that does not remain hot when not in use.

The Firing Leader is responsible for ensuring that only proper soldering equipment is used.

The hot tip is always kept at least 30 cm (l Ft) from any bare exposed explosive(s) and is kept one meter or more from any exposed explosive(s) when not in use.

The soldering iron, and especially the flexible cord, must be examined for defects before it is used.

Any AC soldering gun used at a firing site must meet ULL and OSHA standards for electrical safety.

All personnel who use soldering equipment near explosives must be aware that heat could reach the explosive by conduction. All soldering operations shall be performed so that material in contact with the explosive never becomes more than warm to the touch.

Interposed barriers must be used to ensure that neither the hot soldering iron nor molten solder dropping from it comes in contact with the explosive.

Soldering directly to pins or other objects that are in contact with explosives and can conduct heat to the explosive is prohibited.

Whenever possible, soldering operations shall be done beside or below the assembly rather than above it.

When soldering is completed, the soldering gun must be unplugged and placed in a stable position at least 60 cm (2 ft) from any exposed explosive.

6.2a.5 Table of Hazards and Hazard Circles for Clearance Plans at TA-15 and TA-36

| Plan | Hazard Radius | Application |
|-----------|--------------------------|---|
| A-Minor | 75 m (<u>22</u> 46) | Contained detonator firing. |
| | | Pulsed-power discharges. |
| | | Radiation production. |
| | | Firing-point access control. |
| | | Small-arms firing. |
| A-Minor | 75 m (2446) | Contamination control. |
| Special | | Specific to PHERMEX. |
| A | 250 m (<u>88</u> 20 ft) | Explosive shots. |
| В | 500 m (1640 ft) | Explosive shots. |
| С | 750 m (2460 ft) | Explosive shots. |
| C Special | 750 m (2460 ft) | Contamination control. Confined shots with potential for a hazardous material |
| | | release. |
| | | Specific to PHERMEX. |
| D | 1000 m (3280 ft) | Explosive shots. |
| Е | 1250 m (4100 ft) | Explosive shots. |

TA-39:

Clearance Plans - Each test using HE must be evaluated by the shot leader to determine its hazard potential and what safety plan must be used The safety plans listed below are in ascending order as risk increases. For new operations, or for those with which we have little experience, the highest reasonable hazard level shall be chosen. Each safety plan uses barriers to control traffic. Barriers may never be crossed without explicit permission of the Firing Leader.

TA-39:

Level-1. Level-1 hazard areas are approximately 46 m (150 ft) from the firing points and have barricade with a sign stating "Level-1 Hazard - Do Not Pass." Operations that do not involve the detonation of HE may be conducted using Level-1 safety plan (see SOP DX-15-55). In general, the firing of detonators requires Level-2 (or higher) safety plan; however capacitor bank operations may use a Level-1 plan. This safety plan is also used to exclude personnel from the firing pad when HE is present and there is no hazardous operation in progress.

Level-2. Gate 2 located 750 m (2460 ft) from Point 57, labeled "Level-2 Hazard Area - Do Not Pass," defines the hazard area for the safety plan available for shots meeting the general criteria or explicitly listed in Attachment 1.

Level-3. Systems that do not meet the criteria for a Level-2 hazard are automatically Level-3 hazard shots. Gate 3 (near the entrance to Firing Point 6) provides a hazard circle of 1350 m (4400 ft). This gate is labeled "Level-3 Hazard - Do Not Pass.

Level -4. Shots that have the following properties should use the gate labeled, "Gate 4 - Do Not Pass," unless there is specific experience with the system or rather extensive shrapnel mitigation techniques are being used.

Confined explosives systems with more than 100-lb. HE and having metal (e.g., steel, Cu) walls of 2 in. thick or more. Shots with completely random shrapnel containing more than 100 lb. of HE.

Shots with heavy metal shrapnel that must be directed down the canyon.

NOTE: Remember that State Road 4 is closer to the firing points in two locations than Gate 4, and TA-36 firing points are roughly the same distance from Gate 4 but in the opposite direction. If the shrapnel in the specific shot in question cannot be directed away from the road with certainty, extra mitigation for shrapnel in these directions must be used.

Level-5. A final option is to close the gate labeled, "Gate 5 - Do Not Pass." One may utilize this closure option when particle trajectories will be in the direction of the explosive magazines and extensive shrapnel mitigation measures have been taken to protect State Road 4 and TA-36. The shrapnel mitigation measures must be in place before the HE-containing assembly is brought to the firing area, or must be installed simultaneously with the placing of the HE. The closure of Gate 5 provides additional personnel protection within Ancho Canyon. A safety plan using Gate 5 to define the hazard area will be approved by the Group Leader and the Safety Committee

TA-40 Hazard Circles

Chamber 15 The hazard circle for Chamber 15 extends from the safety gate.

- **Chamber 5** The hazard circle for Chamber 5 is defined by the confinement on the firing pad, because of the very small load limit at this chamber.
- **Chamber 4** The hazard circle for Chamber 4 extends from the safety gate.
- **Chamber 8** The hazard circle for Chamber 8 is defined by the Firing Vessel. There is no hazard area outside the Firing Vessel.

EQUIPMENT APPROVED FOR USE ON THE FIRING POINT DURING THE SETTING OF A SHOT

- 1. Portable electric screwdriver or drill motor.
- 2. Normal hand tools such as hammers, screw drivers, pliers, saws, wrenches, tape measures, and knives.
- 3. DCO meters approved by DX-1 for checking resistance of detonator bridgewires.
- 4. Battery-operated V/Ohm meters to check continuity in cables and circuits isolated from explosive.
- 5. -Mmeters to check for shorts in explosive-monitoring pin and foil circuits.
- 6. Scintillators with incorporated power supplies.
- 7. Sources for checking scintillators.
- 8. Soldering gun (see Attachment 2).
- 9. Telephone, microphones, and loud speakers.
- 10. Vacuum pumps and gauges.
- 11. Pressurized bottled gases, regulators, and gauges.
- 12. Cameras. (see the DX-4: SOP <u>13</u>, "Shot Illumination.").
- 13. Optical alignment apparatus. Mirrors, lasers up to e<u>C</u>lass III A.
- 14. Films, intensifier screens, and cassettes for radiography.
- 15. Electric water heater (element not exposed).
- 16. Radios.

Optical equipment, flashlamps and lasers are discussed in detail in the DX-4: SOP <u>13 on</u> Shot Illumination, or in the DX Division Laser SOP.

General Firing Operations Tools typically used on Firing Mound

| Hammers | Crimpers | Cutting Tools |
|--------------|---------------|------------------|
| Wrenches | Handsaws | Circular Saw |
| Socket sets | Files | Jig Saw |
| Screwdrivers | C-Clamps | Drill Motors |
| Levels | Tape Measures | Alignment Lasers |
| Squares | Pry Bars | Impact Wrenches |
| Chalkline | Chisels | Volt Ohm Meter |
| Pliers | Micrometers | |

DX-DIVISION - CDU SPECIFICATION SHEET

Date: 7/98

| <u>CDU / X-Unit</u> | Inherent Safing | <u>Voltage</u> | Capacitance | Stored Energy | <u>Hazard</u> |
|-------------------------|-----------------|------------------|--------------------|----------------------|---------------|
| | (bleeder, dump | | | $(1/2\mathrm{CV}^2)$ | Exposure |
| · | relay, etc.) | | | | |
| TSD 26 | Bleeder | 4.2kv Max | 1 f | 8.82 J Max | N |
| | | 2.3KV-3.2kv | | 2.65 - 5.12 | |
| | | Normal | | Normal | |
| TSD 23 | Bleeder | 5kv Max | 1 f | 12.2 J Max | N |
| | | 2.5kv - 4kv | | 3.12 - 8 Normal | |
| | | Normal | | | |
| CDU BM7 | Bleeder | 4.5kv Max | 1 f | 10.12 J Max | N |
| | | 2.5kv - 3.2kv | | 2.65 - 5.12 | |
| | | Normal | | Normal | |
| TSD 56 | Bleeder | 10kv Max | 1 f | 50 J Max | N |
| | | 6kv - 8kv Normal | | 18.0 - 32.0 | i I |
| | | | _ | Normal | |
| 50 point | Dump Relay | 2500 | 50 f | 156 joules | N |
| I ea Bldg-6 | | | | | |
| 3 ea Bldg-88 | | | | | |
| 24 point | Dump Relay | 2500 | 24 f | 75 joules | Ν |
| 3 ea Bldg-6 | | | | | |
| 3 ea Blug-88 | | | | | |
| 8 point 4 oo Dida 88 | Dump Relay | 2500 | 16 f | 50 joules | N |
| 4 ca Diug-00 | | | | | |
| Jop Bldg 12 | Dump Relay | 2500 | 50 f | 156 joules | Ν |
| 4 point | Dump Palay | 2500 | 7.6 | | |
| 4 ea. Bldg 12 | Dump Keray | 2500 | / 1 | 22 joules | N |
| 50 point | Dump Relay | 2500 | 50 f | 156 joules | N |
| 1 ea. Bldg.8 | | | | | |
| 50 point | Dump Relay | 2500 | 50 f | 156 joules | N |
| 1 ea. Bldg. 6 | | | | | |
| 50 point | Dump Relay | 2500 | 50 f | 156 joules | Ν |
| 1 ea. Bldg. 3 | | | | | |
| 8 point | Dump Relay | 2500 | 16 f | 50 joules | Ν |
| 1 ea. Bldg. 3 | | | | | |
| 4 point | Dump Relay | 2500 | 7 f | 22 joules | N |
| 2 ea. Bldg. 3 | | | | | |
| 50 point | Dump Relay | 2500 | 50 f | 156 joules | Ν |
| 2 ea. Bidg. R-306 | | | | | |
| 4 point | Dump Relay | 2500 | 7 f | 22 joules | Ν |
| 4 ea. Bldg. R-306 | | | | | |
| 50 point | Dump Relay | 2500 | 50 f | 156 joules | Ν |
| 2 ea. Bldg. R-310 | | | | | |
| 4 point | Dump Relay | 2500 | 7 f | 22 joules | Ν |
| 12 ea. Bldg. R-310 | | | | | |
| Bldg. 88-Module A | Dump Relay | 2.5 kv | 8 f | 25 joules | Ν |
| Bldg. 88-Module B | Dump Relay | 2.5 kv | 8 f | 25 joules | Ν |
| Bldg. 88-Module C | Dump Relay | 2.5 kv | 8 f | 25 joules | Ν |
| Bldg. 88-Module D | Dump Relay | 2.5 kv | 8 f | 25 joules | Ν |

DX-DIVISION - CDU SPECIFICATION SHEET

Date: 7/98

| CDU / X-Unit | <u>Inherent Safing</u> (bleeder, dump relay, etc.) | <u>Voltage</u> | <u>Capacitance</u> | Stored Energy (1/2CV ²) | <u>Hazard</u> Exposure |
|-------------------------|--|----------------|--------------------|--|---------------------------|
| Bldg 88-Module 24A | Dump Relay | 2.5. kv | 24 f | 75 joules | N |
| Bldg 88-Module 24B | Dump Relay | 2.5 kv | 24 f | 75 joules | N |
| Bldg 88-Module 24C | Dump Relay | 2.5 kv | 24 f | 75 joules | N |
| Bldg 88-Module 50 A | Dump Relay | 2.5 kv | 50 f | 156 joules | N |
| Bldg 88-Module 50B | Dump Relay | 2.5 kv | 50 f | 156 joules | N |
| Bldg 88-Module 50C | Dump Relay | 2.5 kv | 50 f | 156 joules | N |
| Bldg. 6 - Module 50 | Dump Relay | 2.5 kv | 50 f | 156 joules | N |
| Bldg 6-Module 24A | Dump Relay | 2.5 kv | 24 f | 75 joules | N |
| Bldg 6-Module 24B | Dump Relay | 2.5 kv | 24 f | 75 joules | N |
| Bldg 6-Module 24 C | Dump Relay | 2.5 kv | 24 f | 75 joules | N |
| Bldg 6-Module Det SW | Dump Relay | 2.5 kv | 16 f | 50 joules | N |

DX-4

<u>P</u>PREPARATION ROOM OPERATIONS

EXPLOSIVE CHARGE HANDLING

ASSEMBLY

SOP <u>0</u>5

| Prepared by: | <u>R. AP. ArchuletaRoberta Mulford</u> , DX-4 |
|--------------|---|
| Approved by: | Date: M. A. DeMariaG. D. Vasilik, -DX-4 ES&H Officer |
| Approved by: | Date: J. M. McAfeeG. W. Laabs, Acting DX-4 Group Leader |
| Approved by: | Date: K. A. Firestone, DX-DO ES&H Coordinator |
| Approved by: | Date: Date: C. A. Nelson, DX-ESH Deputy Facility ManagerESH Deployed Team Leader |
| Approved by: | Date: C. M. Montoya, DX-DO Operations Leader |

PREPARATION ROOM -OPERATIONS EXPLOSIVE CHARGE HANDLING AND ASSEMBLY

July 1996 Page 2 of <u>220 0</u>

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PREPARATION ROOM -OPERATIONS EXPLOSIVE CHARGE HANDLING AND ASSEMBLY

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1.0 INTRODUCTION

This SOP describes the methods to be used in the preparation of explosive charges for firing at DX Division firing sites. Explosives handling, assembly, measuring, trimming, and gluing operations are discussed. All requirements of this SOP are in accordance with the DOE Explosives Safety Manual. Long-term storage is described in the DX-4-DO:_SOP_08; "HE Storage in DX-Division."

2.0 PURPOSE

This Standard Operating Procedure (SOP) provides guidelines and rules for the safe performance of the operations used in the preparation and assembly of explosive charges in $\frac{DX-DivisionDX-4}{DX-4}$ charge preparation rooms. It describes the precautions and procedures for safely performing explosive charge preparation operations.

3.0 SCOPE

This SOP covers all explosive assembly and preparation operations at DX-Division -4Preparation Rooms. This SOP applies to all personnel who are authorized to perform operations in DX-DivisionDX-4 charge preparation rooms.

Location of charge preparation rooms at TA-15 and TA-36:

Building TA-15-242 Building TA-36-4, Room A (Eenie Site) Building TA-36-5, Room A (Meenie Site) Building TA-36-7, Room A (Minie Site) Building TA-36-11, Room A (Lower Slobbovia) Building TA-36-82 (Daisy Mae-Kup)

Assembly and preparation areas at TA-40:

Building TA-40-14 serves Firing Chamber 15 <u>Building TA-40-11 room 106 is administered by DX-1 as part of crystal growing</u> <u>operation at TA-40-12</u> Building TA-40-6 serves Firing Chamber 5 <u>Building TA-40-41 serves Firing Chambers 4 and & 8</u>, and miscellaneous large <u>shotsexperimental assemblies</u>

Assembly and preparation area at TA-14 Q Site is:

Building TA-14-23 Room 104-

Building TA 40-3 is administered by DX 1, as a part of gas gun operations.

Assembly and preparation area at TA-14 Q Site is

----Building TA-14-23 room 104.

Shot Experiment preparation facilities at TA-39 are:

Building TA-39-4-<u>trim Trim sShack</u>

Building TA-39-111 Experiment Assembly Building

------Building TA-39-111 shot assembly building

Building TA-39-77 propellant assembly for gas guns, is administered by DX-1.

Ignorance of the contents of an SOP does not excuse any violation.

Any confusion regarding an SOP should be clarified before an operation begins.

In situations where an approved SOP cannot or should not be strictly adhered to, the SOP must be revised or a deviation be formally approved in an SWP.

4.0 **DEFINITIONS**

- Approved <u>explosiveExplosive</u>, <u>pPropellant</u>, or <u>dDetonator</u> Those detonable materials which DX Division allows in magazines, preparation rooms, and operations. Approved explosives are listed in Attachment 1 of this SOP.
- Assembly Operations that involve installing explosives as part of an experimental assembly.
- Assembly Building A large preparation room (TA-39-111) designated for the assembly of large systems containing explosives. The Assembly Building may be used for explosive storage under rigid restrictions. Only the HE for the assembly being worked on may be in the assembly building.
- EED Electroexplosive Device.
- **EP** Explosion Proof.
- ERC Explosive Review Committee. A laboratory committee that has final authority on many explosives safety issues within the Laboratory, including acceptance of explosives not on the "Approved Explosives" list.
- MSDS-MSDS Material Safety Data Sheet.
- Explosives -- Explosives are defined in the DOE Explosives Safety Manual as any chemical compound or mechanical mixture that will burn or explode if heated, exposed to impact, pinched between moving surfaces, or subjected to an electric discharge or strong shock. The term applies to materials that either detonate or deflagrate. Because explosives

—do not all behave in the same way, they are divided into classes. Those of most interest to DX Division are initiating, boostering, and bursting-charge (secondary) explosives, propellants, and some types of military ammunition. A list of approved explosives is given in Attachment 1.

- Explosives Allowed Area Any area where explosives or explosive-containing components are stored, manipulated, prepared, or set up for firing.
- Explosives Excluded Area An area where no explosive, explosive contamination, or operations with explosives are allowed. Generally, these are firing and diagnostic bunkers, offices, and buildings not specifically designated for explosives use or operations.
- **Explosives Load Limit** The amount of explosives permitted in a magazine or preparation room, as posted on the building of each magazine or preparation room.
- HE High Explosive.
- **Incompatible** <u>materials</u> <u>Materials</u> Materials that may produce unsafe conditions when in contact with explosives. Glues and solvents are commonly encountered incompatible materials.
- Knowledgeable Personnel: A person, authorized by the DX-4 Group Leader or the Deputy • Group ILeader, deemed eligible for a pictured exchange badge or permanently-assigned areaaccess key because of specified training and experience. This authorization is recorded in the Authorizations and Assignments Document. All other personnel are visitors. All required reading, institutional training, and OJT requirements must be completed before authorization as a knowledgeable person or employee. A knowledgeable person (includes "knowledgeable visitors") can only be designated by the DX-4 Group Leader or the DX-4 Deputy Group Leader. All other personnel are visitors. Knowledgeable persons have at least four months experience working in a firing area, as verified by the DX 4 Group Leader. They have met the training requirements stipulated by DX-4, and are judged competent to safely perform various assigned tasks. Knowledgeable Personnel are eligible for pictured exchange badges where they are required. All required reading, institutional training and OJT requirements must be completed before becoming a knowledgeable person or employee. These requirements are specified in Site Specific SOPs or the Authorizations and Assignments Document. They may escort visitors.
- Low Energy EEDs Hot-wire initiators, squibs, blasting caps, etc.
- Magazine, Storage Magazine A structure designed for long term storage of explosives. No operations may be carried out in magazines.
- **Personnel Limit** The number of personnel allowed in a magazine or preparation room for either explosive operations or inspections. The personnel limit is posted on the door of each magazine.
- **Preparation Areas** Rooms and buildings designated as explosive preparation and assembly areas.

NOTE: If necessary, the firing pads may be used as preparation areas for final assembly.—If this is done, extra caution must be exercised since there are steel floors and uneven surfaces.

• <u>HE - Storage</u> - Operations that involve storing explosives until time for its use. During storage, no operation may be done to the HE.

• Suitable Storage Container - A container for storing explosives that is constructed according to the DOE Explosives Safety Manual, II.17.5 under "approved containers."

5.0 **RESPONSIBILITIES**

5.1 Required Reading

5.1.1 Each employee who holds a key to, or uses explosives preparation rooms in $\frac{DX}{DX-4}$ — Division-must read this SOP yearly, and should suggest and review revisions to the SOP as required.

5.1.2 Line supervisors will be responsible for determining which SOPs are required for their employees.

5.2 Training

All training is to be in accordance with <u>(the-DX Division Training and Qualifications</u> Manual<u>Plans)</u>.

5.2.1 Personnel Training Requirements. Personnel with less than four months' training with explosives at DX Division may work in a preparation room only under the direct supervision of a qualified <u>Division group</u>-member who has been granted access to the preparation room.

The DX-4 Group Leader or <u>Designee</u>-Deputy Group <u>LLeader</u> may waive this requirement for ——individuals with other pertinent experience and knowledge.

5.2.2 The team leaders will determine, with input from the Group ES&H officer Officer and the Division Training Generalist, what type of training is required for their team members.

5.2.4 The line supervisors are responsible for on-the-job-training, detailed instruction, —and monitoring of the operators' competence, and adherence to instructions and documentation of (OJT).

5.3 Waste Minimization

5.3.1 Waste minimization will be handled according to the Waste Minimization section of the DX Division Operations Manual and the LANL ES&H Manual, AR 10-8.

PREPARATION ROOM -OPERATIONS EXPLOSIVE CHARGE HANDLING AND ASSEMBLY

5.3.2 Waste generated from Prep Room operations must be reduced as much as technically and economically feasible. To meet this objective, the waste minimization practices of frugality, material substitution, and hazard segregation must be incorporated into waste generating activities in Prep Rooms. All operators should make every practical effort to reduce the amount of waste produced.

5.3.3 All waste will be handled according to the DX<u>-DO</u>-Division-: SOP 01 Waste Management and Generator Waste Certification Programin DX DivisionSOP, DX-DO: Division_SOP 06--Radiological Controls, DX Division SOP 1, Haz Waste, -and the LANL ES&H Manual. and-LIR404-00-03.0.AR-10-3.

6.0 PRECAUTIONS AND LIMITATIONS

6.1 Hazards

The principle hazards associated with explosive operations are blast, fragment production and propulsion, and rapid deflagration (burning) of the explosive charge or assembly. Explosives can <u>developdevelop</u> violent chemical reactions from such stimuli as being heated, burned, impacted, or dropped. Even small quantities may pose a life threatening hazard.
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Explosives will be protected from abnormal stimuli or environments, including:

- friction forces
- excessive pressures
- impact, shock, pinching
- deformation
- electrical sparks, abrasive or welding sparks, open flame
- contamination.

Explosives may be toxic, irritant, or provoke <u>cause</u> a skin rash or other physiological effects. In particular, propellants and materials containing nitroglycerine can have a physiological effect, and gloves should be worn when handling these materials. Personnel should contact their supervisor and ESH-2 should symptoms arise. Personnel shall wash their hands after handling explosives, especially before eating or smoking. In addition, when assembling and preparing explosive charges, the potential exists for exposure of personnel to solvents, glues, and other chemicals that may be irritating or harmful. Hazards from contact, ingestion, or inhalation are listed in MSDSs for the explosives and chemicals in question, which are available at the Preparation Rooms₋₁. Ppersonnel should be familiar with the MSDSs for the explosives and ehemicals they use. _____. These chemicals are used in small quantities which normally do not require ventilation hoods.

Personnel must ensure there is adequate ventilation when required.

6.2 6.2 Handling of Explosives: General Precautions

- Handling of HE should be minimized.
- Explosives shall be kept in a stable position, away from the edges of workbenches, tables, and away from other objects which may tip or fall onto them.
 After an operation on an item has been completed, the item must be placed in a secure location and left in a stable configuration. When possible, items should be placed in suitably designed containers. An item must not be left in any position at any time where it can be easily toppled.
- •____
- Special care shall be taken to prevent and protect explosives from dropping, bumping, or scraping.

The distance that an item will fall if accidentally dropped must be minimized.

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PREPARATION ROOM -OPERATIONS EXPLOSIVE CHARGE HANDLING AND ASSEMBLY

- Floor areas where the handling of HE items is most likely to occur should be covered with an approved tile to reduce the danger in the event of an accidental drop. Floors must be kept clean, to prevent abrasion should a part be dropped.
- Hard surfaces or sharp edges that could be struck by a bare piece of HE in the event of an accidental drop should be padded or otherwise protected.
- The sliding of bare HE on surfaces should be avoided because HE surfaces are relatively susceptible to marring by scratching or slipping. This is important from a quality as well as from a safety standpoint.
- The work area surrounding an HE item that is to be handled shall be kept clear of extraneous tools, components, fixtures, and the like that could interfere with handling operations.
- An explosive sign or placard shall be placed on or next to all unattended explosives.
- All explosives shall be transported in accordance with the DX_-Division <u>O: SOP 03</u> Packaging and Transportation <u>of Hazardous Materials</u>-SOP.

Limitations

- Mechanical force cannot be applied in such a manner that stress concentrations are developed in explosive parts, e.g. a sharp object in contact with the explosives.
- Mechanical clamps cannot be used in a manner that creates sufficient tensile stresses within the explosives to cause fracture.
- Abrasion of explosive charges by rough or sharp edges is not allowed.
- Hair felt material is not to be used with Detasheet because it builds static charges.
- Acetone is used directly only on particular explosives, and only with caution. In general, no solvents should ever be poured on explosives.

6.3 **Personnel and Explosives Load Limits**

Each Explosives Preparation Room has a maximum limit on the amount of explosive that can be present during normal operations. The limits for DX Division Preparation Rooms are listed on the door of the Preparation Room.

Personnel limits are established to prevent crowding of the preparation room from causing an accident, and to limit casualties in case of an accident.

The DX-4 Group Leader may approve a temporary change in occupancy limits.

6.3.1 Personnel and Explosive Load Limits at TA-15 Preparation Room

| Building No. | Personnel Limit | Explosives (lbs) |
|---------------------|-----------------|------------------|
| | | |

PREPARATION ROOM -OPERATIONS EXPLOSIVE CHARGE HANDLING AND ASSEMBLY

| | operators/casuals | |
|-------------------|-------------------|-------------------------|
| <u>TA-15- 242</u> | <u>64</u> | 200- 200 lbs |

-6.3.1 - Personnel and Explosive Load Limits at TA-15 Preparation Room

6.3.2 Personnel and Explosive Load Limits at TA-36 Preparation Rooms

| Building No. | Person <u>nel</u> Limit operators/casuals | Explosives (kg) |
|------------------------|--|-----------------|
| TA-36-4 | 4 | 100 |
| TA-36- 5 | 4 | 100 |
| TA-36- 7 | 4 <u>4</u> | 100 |
| TA-36-11 | 5 | 100 |
| TA-36-82, each room | 5 | <u>100</u> 100 |

If the weight of a single shot experiment exceeds the specified limits or if a shipment must be received that exceeds the specified limits, the DX-4 Group Leader may approve an increase to 250 kg in Buildings 4, 5, 7, and 11 for up to two weeks. These actions must be recorded in the Site Record Log Book.

6.3.3 Personnel and Explosive Load Limits at TA-39 Preparation Rooms

| Building | Persons <u>nel</u> Limit operators/casuals | Explosives (lbs) |
|------------|---|---------------------|
| TA-39-4 | 6 | 500 <u>lbs</u> |
| Trim Shack | | |
| TA-39-111 | 9 | 1000 <u>lbs</u> |

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Assembly Building

6.3.4 _____6.3.4 Personnel and Explosive Load Limits TA-40

The personnel and explosive load limits for the Prep Room facilities used by DX-4 are listed below.

| Building No. | Person <u>nel</u> Limit operators/casuals | Explosives (kg) |
|--------------|--|-----------------|
| TA-40-6 | 5 | 2 |
| TA-40-14 | 4 | <u>25</u> 25 |
| TA-40-41 | 5 | 36 |

6.3.5 Personnel and Explosive Load Limits TA-14

| Building No. | Person <u>nel</u> Limits operators/casuals | Explosives (lbs) |
|-------------------|---|------------------|
| TA-14-23 | 3 | 50 <u>lbs</u> |
| room- <u>Room</u> | | |
| 104 | | |

6.3.6 Detonators and Pellets

- A limit of 150 approved detonators (see <u>See Attachment 1</u>, "Allowable Explosives") and 100 booster pellets may be kept in all charge preparation rooms for use in making up charges. Note: This is 6 trays.
- Detonators and pellets must not be stored in the same container.
 Each category must be stored in nonpropagating containers approved or supplied by DX-1. These limits do not include detonators or pellets incorporated in charges delivered to the preparation rooms from a source outside DX Division.
- Detonators, pellets, and explosives consumed in shots experiments must be documented on the shot experiment sheet. so that HE inventory is always current.

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6.4 Explosives Allowed in Charge Preparation Rooms

No explosive powders or primary explosives will be handled by DX-4 without prior approval or appropriate SOPs/SWPs.

All explosives or explosive-containing devices that have been approved by the ERC or are listed in (ESA) WX-3: SOP 1.1.0, Tables 1 & 2 may be used at DX-4. See Attachment 1 for a list of Explosives routinely used at DX-4.

• Special allowable explosives that are specifically permitted in Attachment 1 under "Special Explosives Operations," may be kept and handled in the charge preparation rooms.

6.5 Compatible Materials

Compatibility rules must be observed when working with explosives. Substances incompatible with explosives can produce heat or a chemical reaction that leads to a more sensitive or less stable explosive. Only compatible materials can be used in contact with explosives. Group DX-2 approves all materials for compatibility.

6.5.1 Adhesives and Coatings

Only approved adhesives and coatings, listed in Attachments 2 and 3, may be allowed in contact with explosives. Care must be taken in cleaning explosives with solvents, since many explosives will dissolve in common solvents such as acetone.

6.5.2 Flammable sSolvents

Use of flammable solvents in an explosives area considerably increases the explosive hazard because of the greater ease-of-ignition of the solvent may lead to a fire involving explosives. Therefore, solvent use and evaporation shall be kept to a minimum. Solvent use will take place in well-ventilated areas, or with proper personal protective equipment. Prudent practice dictates storage of no more than one day's supply of solvents and other flammables in a preparation room.

6.6 Storage of Explosives in Preparation Rooms

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Preparation areas are not normally used for the storage of explosives. However, prepared assemblies of explosive components and assemblies of explosives and inert materials may be left in preparation areas, provided this is necessary to avoid compromising the integrity of the assembly by moving it or storing it in a magazine. Only HE for the <u>shots-experiments</u> being assembled may be kept in the preparation room. <u>Shots-Experiments</u> under construction or explosives otherwise in process may be kept in the preparation room.

-6.6.1 Temporarily Storing Assembled Charges

- If charges are approved for storage in a Preparation room, either they must not interfere with other operations, or else operations will be suspended.
- Every effort should be made to limit the amount of explosives in the Preparation Room to the minimum necessary for the experiment or test being assembled.
- If charges stored in the charge preparation room significantly reduce the available floor space, the DX-4 Group Leader or responsible Firing Leader shall reduce the occupancy limit until the charges are removed. Such explosives should be moved to a magazine, if possible, before this constraint is needed.
- If an experiment is canceled, the charge for that experiment will be disposed of or will be moved to an appropriate storage magazine before a new operation is started.
- Explosive assemblies not scheduled for firing within a reasonable length of time should be moved to an appropriate storage location.

6.6.2 Emptied Containers

Before reusable high explosive storage containers can be returned for reuse, the containers shall be inspected, to be sure they are empty. The inspection requires the removal of all inner liners and packing materials to verify that all high explosives have been removed. An "empty" tag shall be affixed to the empty container after the inspection.

------Empty containers should not be stored in preparation areas.

6.7 Safety Equipment (Personal Protective Equipment)

6.7.1 Safety Glasses or Goggles

Safety glasses or goggles (ANSI Z87.1) are to be worn in accordance with DX-4: SOP₋₇ ---<u>'03</u> General Safety,---except when eye protection must be removed for the use of optical -and other inspection devices.

6.7.2 Gloves

Suitable gloves are recommended to be worn when working with solvents and adhesives. <u>unless other means of preventing their contact with the skin are used</u>. In cases where the gloves do not compromise the safety of the operation, surgeons gloves may be worn when handling small or precision pieces of explosive, primarily to keep the explosive free of skin oils, but also to protect the operator against skin rashes that may result from exposure to explosives.

In particular, propellants and materials containing nitroglycerine can have a physiological effect, and gloves should be worn when handling these materials.

6.7.3 Protective Clothing

- Flame-retardant or nonstatic clothing is not required for normal DX-4 operations.
- Personnel working with explosives should wear Laboratory-issued coveralls or laboratory coats, depending on the operation, to prevent contaminating personal apparel.
- Explosive-contaminated clothing shall not be removed from the Explosives Allowed Area except for cleaning or final disposal.
- If protective clothing has been contaminated, or if contamination is suspected, the clothing must be monitored for HE contamination, properly packaged, and delivered to ESA for cleaning.
- When working with DU, <u>sseeee DX-4: SOP</u>-SOP 2.14 <u>DU-Storage and Handling of</u> <u>Depleted Uranium</u> Components.

6.8 Approved Electrical/Electronic Equipment

6.8.1 Explosion-proof (EP) outlets and equipment will be used in environments that have an explosive atmosphere.

6.8.2 Equipment using a 110 volt alternating current must be kept a minimum of one meter from exposed explosives. <u>or else an SWP will be used</u>. Appropriate measures ——shall be taken to prevent such equipment from any contact with explosives. An ——insulating barrier such as plexiglas between the 110V and the explosive allows closer——proximity.

6.8.3 Tools producing sparks or high velocity chips or tools with any potential for producing fragments (such as grinding wheels and high speed drill motors) shall not be used around explosives.

6.8.4 Certain electrical equipment not rated NEC Class I or II is permitted for administratively controlled use within the Explosive Preparation Rooms. The equipment

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listed in Attachment 4 is approved as intrinsically safe when used under the restrictions noted. No electrical equipment may be used unless it is considered NEC Class I or II as modified by the DOE Explosives Safety Manual, or listed in Attachment 4.

6.8.5 Cellular phones and other RF Equipment

Handheld radios and mobile RF transmitters (e.g., cell phones) are generally allowed for use within the Explosives Firing Areas. However, in areas where low energy EEDs are stored or used in assemblies or test devices, special control must be exercised.

Likely restricted areas include:

- TA-22-34,
- TA-22-93,
- TA-22-Magazines
- TA-40-5, 6, and 7,
- TA-36-11, 12-

6.9 Spilled Explosives

Spilled explosives shall be cleaned up immediately, then disposed of per the $DX_{--}Division \underline{O}$: SOP 01 Waste Management SOP if necessary.

6.10 Eating

Personnel shall not consume any food or drink item in any Preparation Room.

6.11 Operating Vehicles Near Charge Preparation Rooms

Do not drive private or government vehicles that do not have spark arrestors or catalytic converters closer than 25 ft. to any charge preparation building or a charge that is on a firing mound. Turn off the engine before opening any door to a charge preparation area.

Vehicles authorized to carry explosives will comply with all the requirements of the DOE Explosives Safety Manual.

6.12 Working Alone

DX-4 employees with current safety training and who are experienced in explosive operations may work alone under appropriate circumstances, such as assembly, measurement, gluing, inspection, and clamping of certain consolidated explosives and explosive devices.

-------6.12.1 This working alone procedure <u>authorizes allows</u> personnel to work alone in DX Division HE Operations. When working alone with HE, employees will use a procedure appropriate for the particular work area. These procedures require Access Control, Local Access Office, or a coworker to have the following information.

- Who is working alone,
- Where they are located,
- How long they will be working alone (with a completion time).

6.12.2 All operations shall be performed in accordance with existing SOPs/SWPs. Personnel shall be assigned in a manner such that each worker's presence is frequently monitored, for example, via radio, or by a physical check. New, special, or nonroutine operations will require a separate assessment and an SWP before being performed by a person working alone.

All operations involving explosives in Preparation Rooms shall be suspended during ——electrical storms, as described in the DOE Explosive Safety Manual.

7.0 PROCEDURAL STEPS

7.1 Assembly Practices

7.1.1 Permitted Operations in Charge Preparation Rooms

- Gluing of plastic, metal, and other approved materials to explosives is allowed with approved adhesives listed in Attachment 2. Assembly may involve application of metal foils or pins to charges.
- Mechanical fixtures used to hold parts together <u>that could create excessive pressures</u> during the gluing process must be ——approved by the DX-4 Group Leader or a designee. This approval process may ——include review by the ERC for novel applications.
- Inclusion of explosive parts in a close tolerance mechanical assembly is allowed, as long as there is no mechanical force brought to bear on the charge.
- Inspection and measurement of explosive pieces and assemblies is permitted, using rulers, local or commercially manufactured micrometers, dial indicators, cathetometers, chemical balances, microscopes, height gauges, and similar measuring equipment.
- Equipment such as microscopes or electronic balances, and approved meters may be used if the electrical wiring is protected from contamination with explosive dust.
- A portable low-voltage (<12-V) flashlight may be used for local illumination during assembly and measurement operations.
- Battery powered soldering pencils with momentary switches may be used, provided the HE is protected from hot solder or the hot iron.
- Working with Comp C-4, -or <u>Nitroguanadine</u>, Anfo or XTX by hand is allowed.

- Painting on or spraying on of coatings is allowed. Approved coatings are listed in Attachment 3.
- Cleaning inert portions of an assembly with alcohol or acetone is allowed.
- Cleaning explosives charges with water, alcohol, or a dry tissue is allowed. Acetone may be used if it doesn't dissolve explosive or binder.
- Detonators and boosters may be assembled to a charge in the Preparation Room or on the Firing Pad. It is good practice to attach detonators as late in an operation as possible.
- <u>DX-4: SOP 13</u>See Photo and Shot Illumination. SOP.

7.1.2 Cutting and Boring Operations

Cutting Primacord, Detasheet, <u>PBXN110, C129</u>, and XTX-8003 with a razor blade or other sharp blade is —allowed. Inspect the tool for cleanliness and sharpness before cutting. Cut the Detasheet—_on a plastic or rubber surface.

Detasheet may also be cut with a cork-boring tool. Use the cork-boring tool only for cutting Detasheet.

Bending or shaping Detasheet is allowed with the following restrictions:

- Curvature must be in one direction only.
- Bend or roll the <u>dD</u>etasheet to a radius of curvature not less than four times the sheet thickness, to prevent tearing.
- Grinding operations at TA-40-41 will be covered under a separate SOP/SWP.

7.1.3 Housekeeping

Prior to any HE operation, the operators must inspect the floor, benchtops, flats, and other work areas to ensure that it is they are free from debris such as coarse sand or larger particles. If the floor is dirty, it must be swept If surfaces are dirty, they must be cleaned prior to beginning the explosive operation.

7.1.4 Handling Explosives

Charges may be moved by hand within and between buildings in storage containers.

- One person can handle up to 25 kg.
- Two people can handle up to 50 kg.
- Good footing conditions must exist, with no snow, ice, or weeds on the pavement.

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7.2 Unapproved Adhesives

To avoid mistakes, do not take unapproved glues into the charge preparation rooms, except for short times on occasions when they will be used. Store these adhesives outside the preparation rooms. Glues not approved for use on explosives may be taken in to preparation rooms to glue non-explosive parts, but must be removed immediately after operation is completed.

Glues not approved for use on explosives may be used to assemble nonexplosive parts of charge assemblies when

- the glue will not be in contact with explosives, and
- if possible, the gluing should be done elsewhere than the charge preparation room.

These glues must be cured before the assembly is combined with explosives parts.

If a detonator assembly must be sealed so that it can be immersed in water or other liquid, use GE Silicone Rubber RTV 162, 732, Barco Bond, Green Glue, <u>urethane Urethane</u> 7200, or Sylgard.

The above materials function with detonators. However, in general, if a liquid smells like vinegar, do not use it on a detonator; there is evidence that acetic acid and other organic vapors may desensitize the PETN in detonators which could negatively affect detonator performance.

Consult Group DX-1 for their recommendation about the suitability of any other glue, even those allowable for HE, for use in assembling detonators.

7.4<u>3</u> Allowable Mixtures with Nitromethane

Nitromethane may be mixed with acetone or toluene, B_4C particles, cab_o_sil or diethylene triamine. Obtain approval from the Group Leader before using any other solvent.

7.54 Attaching Diagnostics to Charges

- 1. Attach metal foils or pins to charges with glue or tape.
- 2. Pins may be inserted in Primacord, Detasheet, or plastic explosive.
- 3. Attach "pin" circuits<u>leads</u>-with clips or crimp connectors, or with a battery-powered soldering pencil with a momentary switch, and test the assembly with a battery-operated volt-ohmmeter certified for use in the charge preparation room by DX-1.

7.65 Applying Protective Coatings

Coat explosives when necessary to protect the surface, to reduce light, and for other purposes. Select coating fluid to be used in contact with explosives from the list in Attachment 3. If a coating fluid is not on the list, it must be approved by the DX-4 Group Leader before it is used.

7.76 Using Hand Tools

Tools producing high velocity chips or tools with any potential for producing fragments (such as grinding wheels and high speed drill motors) should not be used around explosives.

- Do not use tools that are designed to produce sparks., without an SWP. Maintain and use hand tools as needed.
- Do not use tools directly on the explosive, except as explicitly described under "cutting and boring" in this procedure.
- Measuring tools such as micrometers may be used with care.

7.87 Performing Continuity Checks

Test the detonator before mounting on the main charge.

• Use a continuity meter supplied or approved by DX-1 to check continuity of detonators.

7.98 Emergency Procedures

7.98.1 In all emergencies, call 911. In the event of an emergency or incident, notify DX-4 management as soon as possible. Follow the DX Division Operations Manual, Section 10.3 to report any incidents or accidents.DX-DO: SOP 07 Division Emergency Guide.

7.98.2 The Building/Site Emergency Plan will be followed. It covers what to do, depending on the circumstance.

7.98.3 If a spill occurs, the Building/Site Emergency Plan will be followed, then the Waste Management Coordinators shall be called. The DX-DO: SOP 01-Division_Waste Handling and Management SOP in DX-Division shall be followed.

7..98.4 In the event of eye damage or suspected eye damageinjury the injured person will be taken to the Occupational Medicine Group (ESH-2) or LAMC for treatment.

7.98.5 Any person receiving an electrical shock must report to the Occupational Medicine Group (ESH-2) or LAMC for evaluation and/or treatment.

7.409 Fires

In the event of fire involving or imminently threatening explosives,

CLEAR THE AREA AND REPORT THE FIRE. DO NOT ATTEMPT TO FIGHT ANY FIRE INVOLVING OR THREATENING EXPLOSIVES IN ANY DX DIVISION EXPLOSIVE AREA.

7.109.1 There shall be no smoking at DX-4 Preparation Rooms. No matches, lighters, or other fire, flame, or spark-producing devices shall be taken into an Explosive Allowed Area, except with written authorization (SWP).

8.0 **REQUIRED RECORDS**

- Site Record Log Book
- Hazardous Material Transfer formForm.
- Lists of Allowed Explosives and Adhesives

9.0 **REFERENCES**

- DX-4: SOP 03 General Safety
- DX-4: SOP 09 Loading and Reloading Ammunition
- DX-4: SOP 1.0 General Access Control
- DX-DO: SOP 01 Waste Management and Generator Waste Certification Program in DX-Division
- DX-DO: SOP 03 Packaging and Transportation of Hazardous Materials
- DX-DO: SOP 07 Division Emergency Guide
- DX-4<u>DO:</u> SOP, <u>08</u> "HE Storage" in DX-Division

DX 4: SOP 1.0SOP DX 4 1.0, "General Access Control"

DX_DivisionO: SOP, 01 " Disposal of Explosive Waste and Explosive Contaminated Waste"

- DX Division Training and Qualifications Manual
- DX Division Operations Manual

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DX Division SOP, "Shipping, Receiving, and Transporting Explosives"

- •___DOE Explosives Safety Manual
- •___LANL Environment, Safety and Health Manual, AR 6-6, "Explosives" and AR 12-1,

DX-11-SOP: 15-11-4.5, "Loading and Reloading Ammunition"

10.0 ATTACHMENTS

- Attachment 1. List of Explosives<u>HE</u>-+Routinely used at DX Division Firing Areas
- Attachment 2. List of Approved Adhesives.

Attachment 3. List of Approved Coating Fluids.

Attachment 4. Allowed Electrical Tools.

Attachment 5. TA-39-111 Assembly Building Experiments for HEPP

HE Routinely used at DX Division Firing Areas

NORMAL EXPLOSIVES

This list contains the names and identification numbers of all explosives and detonators approved for normal explosives operations. Only explosives on this list may be received or handled by Group DX-4, unless a separate SWP or SOP exists covering the operations, or a request for limited tests is approved.

• **Primary explosives** - Explosives with a sensitivity greater than PETN (for example, lead azide, lead styphnate or mercury fulminate) that are not used by DX-4 except with specially approved procedures.

| Explosive | ESA-2 | Other Names, Composition, or | Storage |
|-----------|-------|--|-------------------------------|
| S | Mat. | Reference | Rev. |
| | Code | | Period |
| AN | 130LN | Ammonium nitrate | 20 years |
| DATB | 1201 | diaminotrinitrobenzene | 20 years |
| DINGU | | Dinitroglycouril | |
| DINA | | Di(nitroethyl) nitramine, dioxyethyl dinitrate | 20 years |
| EDNA | 1101 | ethylenedinitramine, Halite | 20 years |
| HMX | 03NN | cyclotetramethylenetetranitramine, Octogen | 20 years |
| LAX-112 | | | |
| NM | | Nitromethane | 10 years in 55 gal drum |
| NQ | 07NN | Nitroguanidine, Picrite | 20 years |
| NTO | | 1.2.4-nitro-tiazole-5-one | |
| PETN | 06NN | pentaerythritoltetranitrate | 20 years |
| Picric | | 1,3,5-trinitrophenol | 2 years |
| Acid | | note: Picric acid forms impact- | |
| | | sensitive compounds with metal ions. | |
| RDX | 02NN | cyclo-1,3,5-trimethylene-2,4,6- | 20 years |
| | | trinitramine; Hexogen, Cyclonite | |
| TATB | 1701 | 1,3,5-triamino-2,4,6-trinitrobenzene | 20 years |
| Tetryl* | 04NN | 2,4,5-trinitrophenylmethylnitramine | 20 years |
| HNS | 3001 | Hexanitrostilbene | 20 years |
| TNT | 010N | 2,4,6-trinitrotoluene; Trotyl | 20 years |

SINGLE-COMPONENT EXPLOSIVES

* Tetryl has greater toxicity and greater sensitivity to electric spark than the other permitted explosives

- 1

No.

LIQUID EXPLOSIVES

| Explosive | ESA-2 Mat. Code | Other Names, Composition, or Reference | Storage Rev. Period |
|------------------|-----------------------|--|-------------------------------|
| FEFO | | 1,1'-[methylene bis(oxy)]bis[2-fluoro- 2,2-dinitroethane] | 90 days |
| Nitrometha ne | | NM, see also under single-component explosives | 10 years in 55 gal drum |

MIXED EXPLOSIVES INCLUDING CAST AND PRESSED FORMULATIONS

| Explosive s | ESA-2 Mat. Code | Other Names, Composition, or Reference | Storage Rev. Period |
|----------------|-----------------------|--|---------------------------|
| ANFO | | Ammonium nitrate/fuel oil | 90 days |
| Boracitols | | 60 wt% boric acid/40 wt% TNT | 20 years |
| Baratol | 76NN | 76 wt% barium nitrate/24 wt% TNT | 20 years |
| Calcitol | | 40 wt% TNT/55-60 wt% CaCO ₃ /0-2 wt% talc/1-2 wt%, microballoons, X- 0533 | 90 days |

MIXED EXPLOSIVES

INCLUDING CAST AND PRESSED FORMULATIONS, Continued

Plastic Bonded Explosives - Formed from one or more of the explosive compounds listed individually in "Single-component Explosives," above, mixed with binders and, in some cases, nonexplosive ingredients. Production forms of plastic bonded explosives are identified in numbered series denoted by the letter "PBX-" (originated by Los Alamos); "LX-" (originated by Lawrence Livermore); "EDC-" (originated by the United Kingdom); and "PBXN-" (originated by the US Navy). Also permitted are experimental plastic bonded formulations originated at Los Alamos and identified by the prefix "X-" and a four-digit number.

| CH-6 | | 97.5 wt% RDX/1.5 wt% calcium stearate/0.5 wt% polyisobutylene/0.5 wt% graphite | 20 years |
|---------------|------|--|----------|
| Comp. A | | | |
| Comp. A- 2 | | | |
| Comp. A- | 9085 | 9085, 91 wt% RDX/9 wt% beeswax | 20 years |

| 3 | | | |
|-----------|------|---------------------------------------|------------|
| Comp. A- | | 97 wt% RDX/3 wt% beeswax | 20 years |
| 4 | | | 20 years |
| Comp. A- | | 98.5 wt% RDX/1.5 wt% beeswax | 20 years |
| 5 | | , | |
| Comp. B | 60NN | 64 wt% RDX/36 wt% TNT, Comp B. | 20 years |
| _ | | Hexolite, Hexotol | |
| Comp. B- | 60NN | 60 wt% RDX/40 wt% TNT | 20 years |
| 3 | | | |
| Comp. C- | 9080 | 9080, 88 wt% RDX/12 wt% wax | 20 years |
| 3 | | | |
| Comp. C- | 9081 | 9081, 91 wt% RDX/2.1 wt% | 20 years |
| 4 | | polyisobutylene/ 1.6 wt% motor | |
| | | oil/5.3 wt% di(2-ethylhexyl) sebacate | |
| Cyclotol | 750N | 75 wt% RDX/25 wt% TNT | 20 years |
| 75/25 | | | |
| Cyclotol | 700N | 70 wt% RDX/30 wt% TNT | 20 years |
| 70/30 | | | |
| Detasheet | 6300 | 63 wt% PETN/8 wt% NC/29 wt% | 10 years |
| C | | elastomeric binder | |
| Detasheet | 6301 | 75 wt% PETN/25 wt% elastomeric | 10 years |
| D | | binder | |
| | | NOTE: THIS MATERIAL IS USUALLY RED, | |
| | | BUT IT IS AN EXPLOSIVE, NOT AN INERT | |
| EDC-8 | | Silicone | 20 years |
| FDC-28 | | 94ut% PDX /6 ut% FPC 461 | |
| 200 20 | | 34wt/0 MDA/0 wt/0 FFC 401 | 20 years |
| EDC-32 | | 85wt% HMX/15 wt% Viton A | 20 1/00 70 |
| EDC-37 | | | |
| EDC-38 | | | 20 years |
| HBX-1 | | 40 wt% RDX/38 wt% TNT/17 wt% | |
| | | A1/4.5 wt% wax/0.5 wt% CaCl | 20 years |
| LX-04 | LX04 | 85.5 wt% HMX/15.0 wt% Viton | 20 years |
| LX-07 | LX07 | 90 wt% HMX/10 wt% Vitop | 20 years |
| LX-10 | LX10 | 95.0 wt% HMX/5.0 wt% Viton A | |
| LX-14 | LX14 | 95.5 wt% HMX/4 5 wt% Estane 5702 | 20 years |
| | | F1 (X-0282) | 20 years |
| MDF | | Mild Detonating Fuse | 20 years |
| Nonel | | RDX lined metal tubing | 20 years |
| Octogen | | 94.5 wt% HMX/4 5 wt% wax/1 wt% | 20 years |
| | | graphite | 20 years |
| Octol | 740N | 75 wt% HMX/25 wt% TNT | 20 years |
| PBX 9001 | 9001 | 90 wt% RDX/8.5 wt% polystyrene | 20 years |
| • • • • • | | (PS)/ | 20 years |
| | | 1.5 wt% dioctyl phthalate (DOP) | |
| | L | | |

1

Stewer .

| PBX 9007 | 9007 | 90 wt% RDX/9.1 wt% polystyrene | 20 years |
|-----------|---------|---------------------------------------|------------|
| | | (PS)/ | |
| | | resin | |
| PBX 9010 | 9010 | 90 wt% RDX/10 wt% Kel-F 3700 | 20 years |
| PBX 9011 | 9011 | 90 wt% HMX/10 wt% Estane-5703 | 20 years |
| DX 9011 | 9205 | 92 wt% RDX/6 wt% polystyrene (PS)/ | 20 years |
| DA 5200 | 0200 | 2 wt% dioctyl phthalate (DOP) | - |
| PBX 9206 | 9206 | 92 wt% HMX/8 wt% Kel-F elastomer | 20 years |
| PBX9110 | C129 | 89% HMX and 11% Poly Lauryl | 20 years |
| | | Methacrylate | |
| PBX 9404 | 9404 | 94 wt% HMX/3 wt% NC/3 wt% tris(b- | lst |
| | | chloroethyl) phosphate (CEF) | period-20 |
| | | note: PBX-9404 is unusually sensitive | years, 10 |
| | | to certain types of impact, in | years |
| | | partucular, skidding. | thereafter |
| PBX 9401 | 9401 | 94.2 wt% RDX, 3.6 wt% polystyrene, | |
| | | 2.2 wt% trioctyl phosphate | |
| PBX 9405 | 9405 | 93.7 wt% HMX, 3.15 wt% | 20 years |
| | | nitrocelulose, 3.15 wt% tricloroethyl | |
| | | phosphate | |
| PBX 9407 | 9407 | 94 wt% RDX/6 wt% Exon-461 | 20 years |
| PBX 9501 | 9501 | 95 wt% HMX/2.5 wt% Estane/2.5 | 20 years |
| | | wt% BDNPA or BDNPF, X-0242 | |
| PBX 9502 | 9502 | 95 wt% TATB/5 wt% Kel-F 800, X- | 20 years |
| <u></u> | ļ | 0290 | |
| PBX 9503 | 9503 | 80 wt% TATB, superfine/15 wt% | 20 years |
| | ļ | HMX/5 wt% Kel-F, X-0351 | 00 |
| PBXN-5 | | See LX-10 | 20 years |
| PBXN-110 | | 88 wt% HMX/5.4 wt% | 20 years |
| | | polybutadiene/5 wt% isodecyi | |
| | | pelargonate | |
| PBXW- | | See PBX N110 | |
| 113 | | A | 20 years |
| Primacord | | Assorted PETN & RDA loaded | 20 years |
| | 5001 | Commercial detonating fuse | 20 years |
| Pentolite | 5001 | 50 Wt% PEIN/50 wt% INI | 20 years |
| Tritonal | | 80 Wt% IN1/20 wt% aluminum | 20 years |
| | 77.0000 | | 20 years |
| X-0208 | X-0208 | 5 40 -+0(JIMY: 40 05 | 20 years |
| X-0233 | X-0233 | 10-40 Wt% HIVLX; 40-95 wt% tungsten, | Juays |
| | | U-10 Wt% polyslyrene, U-5 wt% | |
| | | plasticizer | 20 10010 |
| X-0242 | | See PBX 9501 | 20 years |
| X-0282 | X-0282 | See LX-14 | 20 years |
| X-0290 | X-0290 | See PBX 9502 | 20 years |

| X-0309 | X-0309 | 75% TNT, 19% aluminum powder, 5% | 90 days |
|----------|--------|---|----------|
| | | D-2 wax, 1% acetylene black (carbon) | |
| X-0351 | | See PBX 9503 | 20 years |
| X-0407 | X-0407 | 69.8 wt% TATB, 25.0 wt% PETN, 0.2 | 90 days |
| | | wt% dye, 5 wt% kel F800 | |
| X-0533 | X-0533 | See Calcitol | 90 days |
| X-0534 | X-0534 | 50 wt% TNT/16-24 wt% CaCO ₃ /25- | 90 days |
| | | 33 wt% talc/1-2 wt% microballoons | |
| XTX-8003 | | 80 wt% PETN/20 wt% Sylgard 182 | 20 years |
| XTX-8004 | | 80 wt% RDX/20 wt% Sylgard 182, | 20 years |
| | | formerly X-0208 | |

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PROPELLANTS

| Explosive s | ESA-2 Mat. | Other Names, Composition, or Reference | Storage Rev. |
|--|---------------|--|---|
| Black powder | COUC | Standard commercial and military grades only | 20 years if unopened , 2 years if opened |
| Benite Commerci al sporting | | Black powder based mixture Any commercially available smokeless gun propellant for sport use is approved | 2 years 20 years if unopened , 2 years if opened |
| HARP-1,- 2 | | HARP propellants are Al/AP/HMX composites | 2 years |
| HELP-1, - 2 | | HELP propellants are NC/NG/HMX composites | 2 years |
| Smokeless Powder Single, Double, or Triple Base | | Standard military grades. Single or multi- perforated grains of colloided NC. Stabilizers, plasticizers, inorganic nitrates, and other modifying agents may also be present. Military research explosives are specifically not included. | 2 years |
| VTP 25540 | | HMX based High Energy Propellant | 2 years |

DETONATORS

The following high-energy detonators have been approved for Group DX-4 use in test devices. All listed detonators have a storage review period of 20 years.

| 1E23 | ER-213 | EX-12 | SE-1 |
|-------|---------|--------|--|
| 1E26 | ER-235 | EX-12B | SE- |
| | | | 1/31 |
| 1E26B | ER-312 | | |
| 1E27 | ER-312B | MC1991 | SC-101 |
| 1E29 | ER-344 | MC2320 | |
| 1E30 | ER-347 | MC2427 | |
| 1E31 | ER-352 | | |
| 1E33 | ER-353 | MK13C | |
| 1E34 | ER-370 | MK20 | |
| 1E36 | ER-349 | MK22A | |
| 1E38 | ER-350 | | |
| 1E38 | ER-351 | RL1 | ······································ |
| T.F. | | | |
| | ER-371 | RL2 | |
| | ER-377 | | |
| | ER-379 | RP-1 | |
| | ER-380 | RP1/31 | |
| | ER-383 | RP-2 | |
| | ER-396A | RP-80 | |
| | ER-396B | RP-83 | |
| | ER-400 | RP-84 | · · · · · · · · · · · · · · · · · · · |
| | ER-402 | RP-87 | |
| | ER-403 | | |

MUNITIONS

Military munitions are allowed if no further assembly or disassembly operations are involved. An adequate description should be in the DX-4 file. Internal devices that contain primary explosive are allowed if they are "out-of-line" and are not used as the initial initiation point. The initiator must remain in a safe state until the first ignition source is activated following standard operating procedures. Any configuration where the primary explosive unit is external or is to be used as the first initiation or ignition source becomes a special operation requiring a separate SOP or SWP.

Some of the military munitions are listed as rejects or defective lots because they do not meet either physical specifications or performance testing specifications. There are no safety issues related to their rejection. Any arriving munitions marked as rejects will be treated as Storage Compatibility Group L until the reason for rejection is known.

SPECIAL EXPLOSIVES

The use of these explosives is limited to the provisions of the indicated SOPs.

| Explosive | Pertinent SOP References | Storage Rev. Period | |
|--------------------------------------|--|------------------------|--|
| Liquid Gun Propellant LGP 1846 | DX-11 SOP: 15-11- 4.20, "LGP 1846, TA- 36-3" | 2 years | |
| 3E-1 Detonator | 3E-1 SWP | 20 years | |

COMPOUNDS FOUND in TA-16 SOP 1.1.0, "Established Explosives at TA-16,"

but not listed in any DX Division list.

Al-ANFO

BDNPA

BDNPF

BTX (5,7-dinitro-1-picrylbenzotriazole) (transportation only)

DNPA (2,2-dinitropropyl acrylate polymer)

DNT

HBX-1

Methane/ Oxygen mixtures

Nitrocellulose (NC)

PYX (2,6-Bis(picrylkamino0-3,5-dinitropyridine

STRATABLAST C (storage and transportation only)

TAGN (triamino guanadine nitrate)

TAL-1005E (storage and transportation only)

TNS (Trinitrostilbene)

TNT/NC

TPM (tripicryl melamine)

Adhesives, glues, and coatings routinely used at DX Division Firing Areas.

- Methylmethacrylate/solvent glues (Duco, Testor's model cement, other proprietary materials of equivalent composition).
- 3M Industrial Adhesive-226.
- CTA-2 linoleum cement for Detasheet only.
- Elvanol.
- CPR-1009-78 adhesive.
- Silastic TRV-140, -731, -732, -892, -3145
- Eastman 910, Perma Bond 910 adhesive, Loctite 495 adhesive, and other cyanoacrylate ester adhesives .
- 3M Aerosol spray adhesive.
- Aralhex.
- GE Silicone Rubber RTV 162.
- Polad [10 wt% Polacure-740M diamine (Polaroid Corp.)/38 wt% Adiprene 5333/52 wt% acetone].
- Polyurethane 7200, with sets A and B.

When necessary, the following chemicals and gases may be used for light intensification or quenching.

Aluminum Fluorosilicate (**This is a poison; wash hands after use.**) Aluminum Oxide Butane Krylon Spray Paint Magnesium Oxide PETN paint

Approved Glues and Adhesives

- An epoxy -polyamide adhesive know as "Green Glue" and formulated from Epon 828 and Versamid 140 is approved for use in detonator and HE assemblies. This adhesive is covered under Mound Facility's Specification 1-9600.
- Cyanoacrylate adhesives such as Eastman 910 may not be used in direct contract with PETN.
- Devcon 5-minute epoxy is approved for permitted explosives, except TNT and explosive compositions containing TNT, and is permitted for assemblies which will hold liquid explosives after the adhesive is cured.

- Barco Bond 165 and 185 The curing reaction for this material is exothermic: therefore, the thickness of the adhesive layers must not exceed 1.5mm (1/16 in.).
- Sylgard 182, 184, and 186
- DC 93-119
- GE 630
- CPR-1009-78 + Component "T"

| Adhesive | Additive or Catalyst | <u>Remarks</u> |
|----------------------------|------------------------|---|
| Aerobond 2017 | Trimethoxy-boroxine | Compatible with HE. Exothermic reaction. Don't make more than 50 g at a time. |
| VEEP 1579 be VEEP 1579T | Versamid 140 DMP-30 | Not compatible with all HE. May used on PBX 9502, TATB, an mixtures of TATB and inert materials. |
| Torr Seal | Polyamide | Can be used on HE as described in report #250. Ideal for vacuum applications, sealing leaks. |
| Polamine 1000 | | Compatible with HE. Slight foaming cured polyurethanes from moisture. Do not breathe vapors. |

LIST OF APPROVED COATING FLUIDS

Coating fluids used in contact with explosives must be selected from the following list. If a coating fluid is not on this list, it must be approved by the Group Leader before it is used.

- Microballoons in silicone, hydrocarbon grease, or in polyvinyl alcohol and water
- Apiezon wax
- Mineral oil.
- Petroleum greases and oils.
- Glazing compound, modeling clay, and putty.
- Krylon or other methylmethacrylate spray.
- Isopropyl alcohol or ethyl alcohol.
- Silicone grease.
- Water.
- Acetone.
- Aluminized Mylar.

When necessary, the following chemicals and gases may be used for light intensification or quenching.

Aluminum Fluorosilicate **(This is a poison; wash hands after use).** Aluminum Oxide Butane Krylon Spray Paint Magnesium Oxide PETN paint

APPROVED ELECTRICAL EQUIPMENT IN PREPARATION ROOMS

| | Restrict | tions |
|--|----------|-------|
| Bendix height gauge indicator model - BXT-1 | | (2) |
| Chicago multi tester | | (6) |
| Fluke Multimeter, Model 8012A/AD | (3) | |
| Fowler 12" calipers | | |
| Fowler depth gauge | | |
| Hewlett Packard calculator, model 55 | | |
| Laser HE-NE-AERO-Tech. model LSR2P | | |
| Ledu Corp., portable lamp. model 060333 | | (2) |
| Mettler Balance, model PE360 | (1) | |
| Mettler Scale, model PM-400 | (1) | |
| Minolta 35mm camera, model X700 | | (2) |
| Minolta Electro Flash, model 280 PX | (2) | |
| Mitutoyo height gauge, model 519-106 | | (2) |
| Mitutoyo height gauge, model 519-302 | | (2) |
| Mitutoyo height gauge readout, model 122 | | (2) |
| Mitutoyo height gauge readout, model 8943G | | (2) |
| Mitutoyo indicator, model ID-ISOE | | (2) |
| Nikon camera, model F | (2) | |
| Ohaus Balance | (1) | |
| Ohaus Scale, model T600S | | (1) |
| Polaroid camera, model Spectra System | | (2) |
| Polaroid camera, model SX70 | (2) | |
| Sartorius Scale, model P6 | | (1) |
| Sartorius Scale, model P600 | | (1) |
| Sunpack Autoflash, model 30DX | | (2) |
| Texas Instruments TI 55III calculator | | |
| Triplet VOM Meter, model 630 | (6) | |
| Unitron inverted microscope with light source, mod | lel 7530 | (2) |
| WAHL Soldering Station, model 7500 | | (2) |
| Weller Soldering Station, model WTCPN | | (2) |
| Olympus Digital Camera D-300L | | |
| ^^^^ | ~~~~~ | ^^^^^ |

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(1) Balances will be inspected, cleaned, and calibrated biannually.

(2) Not for use at work stations with loose powder.

(3) Approved for use as a Detonator Circuit Ohmmeter (DCO).

(4) Locate illuminator in ventilated enclosure.

(5) For use in a work station with no HE present.

(6) Not approved for DCO use.

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|---|--------------|
|   | Original     |

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### **DX-**4

## STANDARD OPERATING PROCEDURE

### FOR

### AREA K-1 ( SITE SPECIFIC )

### **SOP 22**

| Prepared by: | V. M. Sandoval, DX-4             | Date: |
|--------------|----------------------------------|-------|
| Approved by: | G. D. Vasilik, DX-4 ES&H Officer | Date: |
| Approved by: | J. M. McAfee, DX-4 Group Leader  | Date: |
| Approved by: | ESH Deployed Team Leader         | Date: |
| Approved by: | DX-Division Operations Leader    | Date: |
|              | Controlled Document Number:      |       |

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## **1.0 INTRODUCTION**

This SOP covers the conduct of explosives test firing operations and non explosives tests conducted at the DX-4-K-1 Firing sites. This document is not to be used as a stand alone document. It should be used in conjunction with the DX-4: SOP 4 General Firing and other applicable DX SOP's.

# 2.0 PURPOSE

This SOP describes specific operations, procedures and protocols by which a safe environment is ensured for all personnel at TA-15-R-306, TA-36-3, 6, 8 and 12 during preliminary preparations, circuit testing, clearance, firing operations, abort, partial firing, and misfire procedures.

# 3.0 SCOPE

This SOP presents the procedure for conducting test-firing operations involving explosives at TA-15-R-306, TA-36-3 (Eenie Site), TA-36-6 (Meenie Site), TA-36-8 (Minie Site) and TA-36-12 (Lower Slobbovia) and at their associated firing mounds.

## 4.0 **DEFINITIONS**

Definitions are covered in DX-4: SOP 3 General Safety and DX-4: SOP 4 General Firing Operations.

## 5.0 PERSONNEL RESPONSIBILITIES

## 5.1 Required Reading

Each person who participates in firing operations in area K-1 must read the following SOPs, the General Firing Operations SOP, the General Access Control SOP, the General Safety SOP and any other applicable SOPs, as determined by their supervisor.

## 5.2 Working Alone

The following are the minimum requirements for working alone with HE in the K-1 Firing Area.

- Only authorized Firing Leaders may conduct firing operations alone.
- All operations shall be performed in accordance with all applicable DX SOPs.
- Working alone on firing operations is permitted only during normal working hours or when Access Control is manned.
- Personnel shall be assigned in a manner such that each worker's presence is periodically monitored via radio or a physical check, in case assistance becomes necessary.
- Any person conducting firing operations alone should be in contact with the Access Control Office or another knowledgeable employee.

# 6.0 PRECAUTIONS AND LIMITATIONS

#### 6.1 Firing-Area Gate

Access is controlled to the K-1 firing sites by means of a key operated gate located just to the East of TA-15- 446 (Refer to General Access Control SOP).

# 6.2 Firing-Control Keys

Each firing circuit is locked, and only authorized DX-Firing Leaders and Chamber operators have keys to these locks. Keys to firing panels at TA-36 are kept in the firing leaders possession, while keys for the firing panel and the CDU's at TA-15-R-306 are kept in a lock box at the site until needed. Only authorized Firing Leaders have access to this lock box by way of a combination lock. Spare keys are locked in a safe at the TA-15-183 Access Control Office and may be issued only with the approval of the Group Leader or his Designee.

#### 6.3 Interlocks

#### 6.3.1 Door Interlocks

Firing-bunker doors are interlocked with the firing circuit and, except as provided in Special Firing Procedure outlined in Attachment 1 of this SOP, it must remain secured throughout the firing sequence.

#### 6.3.2 Firing-System Interlocks

The firing-system interlock prevents the connection of a detonator cable to the 2500-V CDU, the low-voltage firing systems (44V), or the 110V Firing Unit while electronic maintenance and tests are being performed.

# 6.4 Firing-Circuit Test Mode (see Attachment 1)

Before actual firing, but after a charge has been assembled on the firing mound, personnel may want to test various aspects of the firing-control circuits; this may include charging and triggering the CDU. A test mode system is installed at each of the TA-36 firing sites. These are actuated by turning a firing-circuit lock switch to "Test Mode," which permits the CDU's to be charged and triggered without the audible and visual warnings and without closing the interlock systems. Each system is interlocked with a cable trap door, through which the detonator cables must pass to be connected to the CDU. Thus, passing a cable through the trap door disables the "Test Mode" by-pass function, thereby preventing the firing of a test when the warning system is not operating.

At TA-15-R-306 there is a CDU bunker with a lock on the door and a lock box located inside the firing bunker. When operating in test mode the Firing Leader must assure that the CDU bunker is closed, locked and that there are no firing cables entering the CDU bunker. The Firing Leader may then make the connections at the lock box and the test sequence may begin.

## 6.5 Warnings

## 6.5.1 Warning Lights

Flashing red lights are located at the entrance to each firing site. The lights at TA-36 Firing Sites operate automatically when the firing circuit is activated. The firing control system indicates that the light and horn circuits have been activated. The lights at TA-15-R-306 are controlled by a switch on the firing board.

# 6.5.2 Warning Horns

A horn sounds automatically when the firing circuit is activated. Hearing protection should be worn by any person outside the bunker and near the horn because the noise level is above the recommended short-term exposure limit. R-306 has only a siren, as described in the firing sequence section of this SOP.

# 6.5.3 Warning Signs

TA-36 Warning signs on site gates read:

# DANGER DO NOT ENTER EXPLOSIVES OPERATIONS IN PROGRESS

## 6.6 Personnel Limits on Firing Mound when HE is Present

The number of personnel present on the firing mound during test preparation must be minimized, to limit the number of people involved in the case of an accident and to reduce distractions.

All TA-36 Firing Sites: Whenever explosives are present on the firing mound the total number of personnel shall not exceed Five.

TA-15-R-306: Whenever explosives are present on the firing mound the total number of personnel shall not exceed eight.

These personnel limits may be increased with the approval of the Group Leader or his Designee. These personnel limits may be decreased at the discretion of the Firing Leader.

# 6.7 Explosive Load Limits at K-1 Firing Sites

Refer to DX-4 SOP 3 General Safety, Attachment 5

## 6.8 Communication During Firing Operations

## 6.8.1 Radio

There is free-channel radio communication among all firing bunkers and vehicles used for clearance operations, the Access Control Office, and the DX-4 Group Office. During the time that the firing circuit is unlocked, the radio shall be reserved solely for communication concerning the test being fired and emergencies. To reduce the possibility of confusion or misinterpretations of radio messages, the following are suggested. Reserve the use of words such as **hold** and **stop** for emergency communication. Use the name of the individual being contacted by radio, in addition to the site designation, during any radio communications involving hazardous operations.

Refer to DX-4 sites by these designations in radio transmissions:

- BUNKER 3 (Eenie Site)
- BUNKER 6 (Meenie Site)
- BUNKER 8 (Minie Site)
- BUNKER 12 (Lower Slobbovia)
- BUNKER R-306 (R-306)

#### 6.8.2 Telephone

During the time that the firing circuit is activated, the telephone line to the site shall be reserved solely for calls concerning the test being fired.

#### 6.9 Firing Units

All electrical work shall be conducted in accordance with the LANL Electrical Safety Program.

## 6.9.1 TA-36 Firing Units

The Category I firing units, the low-voltage firing units (44V) and the 110V capital firing units are located inside the firing bunker. The detonator cables are disconnected from the firing system after each test and are not reconnected for another test until all personnel are inside shelter.

# 6.9.2 TA-15-R-306 Firing Units & TA-36-12 Test Remote CDU Bunker

The Category I firing units are located inside the CDU Bunker. The detonator cables are disconnected from the firing system after each test and are not reconnected for another test until all personnel are inside shelter.

## 6.9.3 Category II Firing Units

For those tests in which the firing unit must be located adjacent to the test assembly, the highvoltage power supply shall be located within the firing bunker (TA-36) or the CDU Bunker (TA-15-R-306). The trigger cable and the monitor cable may be connected in advance, but the <u>High Voltage cable shall be disconnected from the Firing Unit</u> within the building and not reconnected until a clear area and roadblocks have been established.

# 6.10 Fire Department

If, in the opinion of the Firing Leader, there is a probability that a fire will be started as a result of a planned test, Firing Leaders shall inform Access Control as far in advance as possible of tests scheduled (24 hours if possible). The Access Control Office will make arrangements with the Fire Department. On the actual test day, a one-hour confirmation time will be called directly to the Fire Department by the Access Control Office. If an earlier firing time is desired, the Firing Leader must contact the Access Control Office which will contact the Fire Department to reschedule, if possible. The Fire Department must be rescheduled if the prearranged time is delayed by more then 45 minutes. When reporting standby requirements, the Firing Leader should give the test a fire hazard category—low, medium, or high. (Probability of starting Fires ). The Firing Leader may instruct another individual to handle the communications with the Access Control Office or Fire Department. The Fire Department will decide the number of tankers to be assigned to the test. Special consideration should be given to tests involving Depleted uranium, copper, or tantalum. During the firing procedure, Fire Department personnel shall remain outside the area cleared for the firing operation until they are cleared for entry.

- For Tests fired at TA-36-3(Eenie Site) TA-36-6(Meenie Site), and TA-36-8(Minie Site) the Fire Department shall standby at the bottom of IJ hill.
- For Tests fired at TA-36-12(Lower Slobbovia) the Fire Department shall standby at the top of Lower Slobbovia hill.
- For Tests fired at TA-15-R-306 the Fire Department shall standby at the TA-15-R-40 Access Gate.

# 7.0 PROCEDURAL STEPS

# 7.1 **Preliminary Preparations**

# 7.1.1 Test Assembly

The Test should be assembled as much as possible in the site prep room. (Refer to DX-4 SOP 05 Preparation Room Operations, DX-4 SOP 03 General Safety and DX-4 SOP 04 General Firing Operations).

# 7.1.2 Test with a large number of diagnostics and or visitors

At the discretion of the Firing Leader for tests involving a large number of diagnostics and or visitors a Second Firing Leader may be assigned to the test. One Firing Leader will be responsible for supervising the setup of the test on the mound. This will leave the other Firing Leader free to oversee the entire operation from a safety standpoint.

# 7.1.3 Escorted visitors attending tests

Visitors who must be escorted during tests will not be assigned to a Firing Leader working on a test as he is already well burdened. Visitors can be assigned to any other Knowledgeable Person.

# 7.2 Clearance

Visitors who are not knowledgeable about DX-4 firing procedures may be within the anticipated hazard area. Therefore, it is imperative that the hazard zone be carefully cleared before any potentially hazardous operation is initiated. Only Knowledgeable Personnel or people accompanied by a Knowledgeable Person will be allowed to remain within the hazard zone in a safe place. Persons remaining within the hazard zone must be in the firing bunker and not in either a day magazine or a charge preparation room.

Clearance is accomplished by using one or more clearance Patrolmen who sweep the site or sites in a radio-equipped vehicle and proceed to a safe position appropriate for the clearance level. In each case described below, roadblocks will be established by parking the radio-equipped vehicle in the center of the access road, with the clearance patrolman in radio contact with the firing bunker. The Patrolman doing the clearing will then notify the Firing Leader by radio that the firing area is clear for firing. The Patrolman shall use the following format for this radio transmission:

"Calling (<u>Name of Firing Leader</u>) at Bunker (<u>No.</u>) from (<u>Name of Patrolman</u>); the firing area has been cleared to (<u>Location</u>)."

The Firing Leader will then confirm the transmission as follows:

"This is (Name of Firing Leader) at Bunker (No.), confirming roadblock at (Location)."

The manned roadblock will remain in place until the Firing Leader notifies the Patrolman that a safe condition exists.

The emergency warning lights on the vehicle will be operated throughout the clearance operation. If anyone passes a blockade and enters a hazard zone, the Clearance Patrolman manning the roadblock shall immediately notify the Firing Leader to "<u>STOP</u>" the firing sequence. The Clearance Patrolman manning the roadblock shall remain at his station and shall not attempt to chase the person or persons who have passed the roadblock. The Firing Leader shall immediately discontinue the firing sequence and confirm receipt of the message by stating:

"The firing sequence has been stopped at Bunker \_."

The Firing Leader should then take steps to clear the area again before restarting the firing sequence.

# 7.2.1 Clearance Procedure for Plan B & C Tests

The Firing Leader starts the clearance procedure by calling the Access Control office and asks the Access Control Officer to initiate the appropriate clearance.

The Access Control Officer begins by locating all visitors in the K-1 area and insures that they either exit the area or remain in a safe location

The Access Control Officer then notifies the Firing Leader that all Visitors have been located and are accounted for.

The Firing Leader now directs the Clearance Patrolman or men to begin the appropriate Clearance Sweep. Clearance patrolmen shall be equipped with two way radios that will be set to the DX-4 frequency.

#### 7.3 Clearance Plans

A table of Clearance plans and Hazard Circles for TA-15-R-306 and TA-36 is presented in the DX-4: SOP 4 General Firing Operations, Attachment 3.

#### 7.3.1 Plan A-Minor

(Contained detonator firing, pulse-power discharges, radiation production, firing point access control).

#### All K-1 Firing Sites

Clearance Patrolman sweeps the area to the Site Safety Gate where the manned roadblock is then established.

Note: In an operation where no explosives will be fired the Patrolman may close and lock the safety gate and is not required to man the roadblock.

## 7.3.2 Plan A

(Explosives Tests- 1 LB maximum -No Fragments, small arms firing)

#### All TA-36 Firing Sites

Clearance Patrolman sweeps the area to the Site Safety Gate where the manned roadblock is established.

#### TA-15-R-306

One Clearance Patrolman sweeps the area to the R-306, Ridge road intersection where the manned roadblock is established. The Firing Leader must sweep the tunnel between bldg. R-306 and bldg. R-280 and then standby outside of R-280 to ensure that no one enters the site while the Patrolman sweeps the tank farm and the roads leading to R-44 and R-45 ensuring

that the safety chains are up at the entrances to these sites. The roadblock is then established at the R-306, Ridge Road intersection.

#### 7.3.3 Plan B

(Explosive Tests)

TA-36-3 (Eenie Site)

Two Clearance Patrolmen sweep the area in two directions. One Patrolman must block the road at the Eenie intersection while the other patrolman clears out Daisy Makeup. After this has been accomplished the Patrolmen continue to clear the area with one manned roadblock being setup at the IJ turnoff and the other at the Meenie, Minie turnoff.

TA-36-6 (Meenie Site)

Two Clearance Patrolmen sweep the Meenie area and the Minie area. One Patrolman must block the Meenie intersection while the other clears out the Minie area. A manned roadblock is then set up at the Meenie, Minie turnoff.

Note: A barricade with the words DANGER DO NOT ENTER EXPLOSIVES OPERATIONS IN PROGRESS may be used to block the Meenie intersection while the Minie area is cleared if a second Patrolman is not available.

TA-36-8 (Minie Site)

Two Clearance Patrolmen sweep the Minie area and the Meenie area. One Patrolman must block the Minie entrance while the other clears out the Meenie area. A manned roadblock is then set up at the Meenie, Minie turnoff.

Note: A barricade with the words DANGER DO NOT ENTER EXPLOSIVES OPERATIONS IN PROGRESS may be used to block the Minie entrance while the Meenie area is cleared if a second Patrolman is not available.

TA-36-12 (Lower Slobbovia)

Clearance Patrolman sweeps the Pixy area, the Sled Track area, the Lower Slobbovia Makeup area and then proceeds to the top of Lower Slobbovia hill where the manned road block is established.

The Firing Leader will standby outside of Bunker 12 to ensure that no one enters the area while the area is swept.

TA-15 R-306

Using radio equipped vehicles two Clearance Patrolmen sweep the area. The Firing Leader must sweep the tunnel between bldg. R-306 and bldg. R-280. One Patrolman will block the road in front of R-280 to ensure that no one enters the site while the other Patrolman sweeps the tank farm and the roads leading to R-44 and R-45 ensuring that the safety chains are up at the entrances to these sites. The Patrolmen then continue their sweeps in two directions with one setting up a manned roadblock at the intersection to the new access road and the other at the IJ entrance gate.

7.3.4 Plan C

(Large Explosive Tests)

TA-36-3 (Eenie Site) TA-36-6 (Meenie Site) TA-36-8 (Minie Site)

The plan C clearance for Eenie, Meenie and Minie are identical, requiring two vehicles. One driver clears the Meenie, Minie area while the driver of the second vehicle blocks the Meenie, Minie turnoff. After Meenie Site and Minie Site have been cleared, the vehicles will meet at the Meenie , Minie turnoff. One Patrolman will standby at the Meenie, Minie turnoff while the other Patrolman clears out Daisy Makeup and Eenie Site. Eenie Site may be cleared by sweeping the site or by contacting Eenie-Site personnel and asking them to clear the site, in which case the person conducting the clearance must not leave the Eenie-Site entrance until the site personnel have informed him that Eenie Site is clear. The drivers will then proceed separately to Moe Hill and the IJ-Point turnoff where the manned roadblocks are established.

TA-36-12 (Lower Slobbovia)

Clearance Patrolman sweeps the Pixy area, the Sled Track area, the Lower Slobbovia Makeup area and then proceeds to the Moe Turnoff where the manned road block is established.

The Firing Leader will standby outside of Bunker 12 to ensure that no one enters the area while the area is swept.

#### TA-15 R-306

Two Clearance Patrolmen sweep the area. The Firing Leader must sweep the tunnel between bldg. R-306 and bldg. R-280. One Patrolman will block the road in front of R-280 to ensure that no one enters the site while the other Patrolman sweeps the tank farm and the roads leading to R-44 and R-45 ensuring that the safety chains are up at the entrances to these sites. The Patrolmen then continue their sweeps in two directions with one setting up a manned roadblock at the intersection to the new access road and the other at IJ Hill.

Note: If the IJ site gate is open this site must be cleared before proceeding. This may be done by placing a barricade in the road with the words DANGER DO NOT ENTER EXPLOSIVES OPERATIONS IN PROGRESS while the Patrolman sweeps the site or it may be cleared through radio contact with someone at the site.

Note: More than one site may fire under the same clearance operation if the Firing Leaders determine that no unusual hazards will be created by more than one firing operation under a single clearance.

### 7.4 Site by Site Roadblock Clearance Positions

#### 7.4.1 Eenie Site TA-36-3

A-Minor Safety Gate

Plan-A Safety Gate

- Plan-B IJ Turnoff & Meenie, Minie Turnoff
- Plan-C IJ Turnoff & Moe Hill

#### 7.4.2 Meenie Site TA-36-3

A-Minor Safety Gate Plan-A Safety Gate

Plan-B Meenie, Minie Turnoff

Plan-C IJ Turnoff & Moe Hill

#### 7.4.3 Minie Site TA-36-8

A-Minor Safety Gate

ten and and a second

Plan-A Safety Gate

Plan-B Meenie, Minie Turnoff

Plan-C IJ Turnoff & Moe Hill

#### 7.4.4 Lower Slobbovia TA-36-12

A-Minor Safety Gate

Plan-A Safety Gate

Plan-B Top of Lower Slobbovia Hill

Plan-C Moe Turnoff

#### 7.4.5 R-306

A-Minor Safety Gate

Plan-A R-306 & Ridge road intersection

Plan-B IJ site gate & intersection to the new access road

Plan-C Top of IJ Hill & intersection to the new access road

### 7.5 Sequence Timer for Warnings and Circuit Charging

The timing of warnings and firing-circuit charging is controlled by the fire control system. The sequence timer is started by turning the key switch on.

# 7.5.1 (TA-36 Firing Sites)

A four minute period (during which the horn is sounding) is provided as a back-up clearance prompt. After the four minute period, a 30-second siren warning is sounded. This is followed by a 30-second period without the siren sounding, followed by a 45 second siren sounding. The selected firing unit is then enabled and can be fired. The siren will continue to sound until the key switch is turned off.

# 7.5.2 (TA-15-R-306 Firing Site)

At R-306 there is no horn. A 30-second siren warning is sounded, followed by a 30-second period without the siren sounding, followed by the siren sounding for 90 seconds. The selected firing unit then is enabled and can be fired. The siren will continue to sound until the key switch is turned off.

# 7.5.3 Arm Switch

A spring-loaded "Arm Switch" controls the charging of the CDU, or the arming of the firing system. It enables the high-voltage power supply that is attached to the capacitor bank in the CDU. Pushing the "Arm Switch" disconnects a shunt across the capacitor bank and connects the bank to the high-voltage supply. The high-voltage power supply is interlocked so that pushing the arm switch enables output from the supply. These arming relays are energized by the operator actuating the "Arm Switch," as the final event in the timed sequence.

# 7.6 Firing Of Test

# 7.6.1 TA-36 Firing Sites

When the Firing Leader receives notification that the hazard zone has been cleared, he will secure the firing-bunker door, activate the firing circuit (thus starting it), and make certain that the horn is operating. Although the fire control system indicates when power is applied to the horn and to the siren, the Firing Leader must confirm by listening that they are sounding. If the horn or siren fails to operate, he shall shut down the firing operation without firing. Firing operations with a non operational horn or siren may be executed only with explicit approval of the Group Leader or his designee.

If all equipment is operating in a normal manner he may connect the detonator cable to the firing system and proceed with any other preparatory activities required while the normal firing sequence progresses.

Just before actuating the "Arm Switch," the Firing Leader will contact the Clearance Patrolman at each roadblock by radio to ensure clear radio contact. The format of this transmission shall be as follows:

"This is a radio check from BUNKER (No.)"

The Patrolman shall respond: "Received loud and clear at (Location)."

After the Firing Leader has assured himself that all radio checks have been received, he may then proceed to fire the test at his discretion.

#### 7.6.2 TA-15-R-306

When the Firing Leader receives notification that the hazard zone has been cleared, he will make certain that he has the High Voltage Keys and the CDU Keys in his possession. He will then make certain that all firing cables are disconnected at the lock box in the firing bunker. He may then proceed to the CDU Bunker and make the connections to the appropriate CDU's. He will return to the firing bunker , secure the door behind him and make the appropriate connections at the lock box. After this is accomplished he will turn over the keys to the Detection Chamber Operator and inform him that the area is clear and the test is armed. At this point the Detection Chamber Operator will take over the firing of the test. Although the fire control system indicates when power is applied to the siren, the Firing Leader must confirm by listening that they are sounding. If the horn or siren fails to operate, he shall shut down the firing operation without firing. Firing operations with a non operational horn or siren may be executed only with explicit approval of the Group Leader or his designee.

Just before actuating the "Arm Switch," the Firing Leader will contact the Clearance Patrolman at each roadblock by radio to ensure clear radio contact. The format of this transmission shall be as follows:

"This is a radio check from BUNKER (<u>No</u>.)" The Patrolman shall respond: "Received loud and clear at (<u>Location</u>)."

After the Firing Leader has assured himself that all radio checks have been received, he may then direct the Detection Chamber Operator to fire the test at his discretion.

#### 7.7 Checklists

#### 7.7.1 TA-36 Firing Sites

At all TA-36 firing sites Firing leaders will use the DX-4 Firing Operations Checklist which encompasses clearance and firing.(Attachment D of this SOP).

#### 7.7.2 TA-15-R-306

Firing Leader will use DX-4 Firing Operations Checklist and Detection Chamber Operator will use R-306 Test Checklist. (Attachment D of this SOP).

#### 7.8 Misfires, Abort Conditions, and Partial Firing

If the Firing Leader or the Detection Chamber Operator pushes the "FIRE" button and the test fails to fire, he will try, without sounding the "All Clear," to determine whether the failure creates a potential hazard.

Without terminating the firing sequence, he will look for possible trivial causes (such as an unconnected detonator cable). If a trivial cause is determined, he may attempt to fire the test a second time after ensuring that no diagnostics have been jeopardized. If the cause is not located or is not trivial, he will disconnect the firing cables and wait 30 minutes. After this waiting period, a remote visual inspection will be performed for any sign of reaction (smoke, fire, etc.), either through the camera or periscope, or by the person blocking the road. If no evidence is noted, the Firing Leader will then terminate the firing sequence, as indicated below. If there are any unusual circumstances, conditions, or any indication of reaction (Partial Firing) the Group Leader or Group Safety Officer will be contacted for special instructions on terminating the firing sequence. The warning signals should not be continued for longer than ten minutes unless a hazardous condition exists that cannot be safely removed. After finding the apparent cause of the misfire (except for trivial causes) and before attempting to fire the test a second time, the Firing Leader will contact the Group Leader or another Firing Leader and review the operation and the corrective measures taken.

# 7.8.1 Tests involving projectiles fired into energetic material

Tests involving projectiles (bullets, shaped charges, etc.) fired into targets containing energetic material are covered in DX-4 SOP-8 (Firing Small and Large-Bore Guns).

# 7.8.2 Tests where there is a suspicion that one piece of HE detonated but the second did not

For tests in which there is a possibility that one piece of HE detonates but the second does not, the Firing Leader will disconnect the firing cables and wait five minutes. After the waiting period and a remote visual inspection, but not less than 10 minutes, the Firing Leader or his designee will inspect the area for damaged explosives before signaling the all clear.

Note: If damaged HE is discovered the Firing Leader will contact the Group Leader or Group Safety Officer for special instructions on terminating the firing sequence.

## 7.9 Completion of Firing Operations

## 7.9.1 Firing Completion and Shutdown

The firing operation is completed by disconnecting the detonator cables from the firing unit, permitting the siren to sound for an additional 60 seconds to allow time for the shrapnel to fall, and then locking the firing circuit. An "All Clear" of two short blasts of the siren is then sounded.

# 7.9.2 Emergency Shutdown

In an emergency shutdown of the firing operation before the charge is fired, the 60 second sounding of the siren may be omitted.

# 7.9.3 Notice of completion or cancellation

Notice of completion or cancellation of the firing operation must originate with the Firing Leader and be transmitted to all involved personnel. The format for this transmission shall be as follows:

"The test at BUNKER (<u>No.</u>) is ALL CLEAR and it is now safe to enter." No one is to leave shelter until he/she receives this notice.

#### 8.0 **REQUIRED RECORDS**

DX-4 Post Test Sheet DX-4 Firing Operations Checklist R-306 Test Checklist

#### 9.0 **REFERENCES**

- LIR 402-600-01.0 "Electrical Safety"
- LIG402-600-01.0 "Electrical Safety Implementation Guide"

#### 9.1 Maps

General maps and descriptions of the firing sites are presented in Attachment 1 of the

DX-4 SOP 1.0 General Access Control

## 9.2 Standard Operating Procedures

- DX-DO:SOP 06 Radiological Controls
- DX-DO:SOP 07 Emergency Plan
- DX-4: SOP 03 General Safety
- DX-4: SOP 04 General Firing Operations
- DX-4: SOP 05 Preparation Room Operations
- DX-4: SOP 06 Repetitive-Type High Consequence Lifts
- DX-4: SOP 08 Firing Small and Large-Bore Guns
- DX-4: SOP 09 Loading and Reloading Ammunition
- DX-4: SOP 13 Shot Illumination
- DX-4: SOP 14 Charge Temperature Control During Firing Operations
- DX-4: SOP 17 Flash X-Ray Generators
- DX-4: SOP 23 Vacuum Use in Field Tests
- DX-4: SOP 1.0 General Access Control
- DX-4: SOP 1.2 Access Control at Area K-1, TA-15 & 36
- DX-4: SOP 2.14 Storage and Handling of Depleted Uranium

## **10.0 ATTACHMENTS**

- 1. Special firing procedure at TA-36 Firing Sites
- 2. Evaluation of Fragment Hazards (Bill Davis Rule)
- 3. Procedure for CDU Backvoltage Test
- 4. Clearance and Firing Checklists
- 5. Allowable Distances for Kappa Sites

#### **ATTACHMENT 1**

#### **SPECIAL FIRING PROCEDURE AT TA-36 FIRING SITES**

This procedure provides for a by-pass action at the TA-36 firing sites during standard firing practices that are outlined in the main text of this SOP.

The purpose of the deviation is to secure important advantages, through simplification of the charge make-up or through improvement in the quality of the experimental results, by minimizing the time between the final adjustments to the charge and the firing of it. Use of this procedure will be kept to a minimum.

#### Approvals

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Each application of this procedure will require individual approval by the Group Leader, or Designee. Before approval is given by one of the above, he/she will determine that the Firing Leader requesting approval is familiar with the remaining items of this SOP. When a particular application of this procedure is approved, the Access Control Officer will issue an interlock key to the Firing Leader. Issuance of the key will be by direct authorization from the Group Leader, Acting Group Leader or Designee.

#### **Precautions and Limitations**

After the test setup is ready on the firing mound, the Firing Leader and his assistants will go inside the firing chamber, and the hazard area will be cleared as provided in this SOP. The following steps and precautions will then be taken.

Begin sequence to bypass the firing-chamber door interlock.

- Insert firing-panel key, and switch to RUN mode.
- Use the computer mouse to grab the INTERLOCK menu.
- Double-click on the DOOR INTERLOCK option. A comment box will come on the screen. Read, then proceed.
- Insert the interlock key and switch to ON. (Do not turn past ON.)
- Now firing sequence should be proceeding with countdown. If not, use the mouse to grab the INTERLOCK menu again and choose the CLEAR INTERLOCKS option, then repeat the above steps.
- Establish that the external firing-unit grounding switch is in the ground position.
- Ensure that all detonator cables are disconnected from the firing unit.

#### **Procedural Steps**

During the firing sequence, the Firing Leader or a person authorized by him will go to the firing mound and make final adjustments to the charge. If it is absolutely necessary and it will improve the safety of the operation, more than one person will be allowed on the mound. This person will then reenter the firing chamber and will close and latch the door.

After the Firing Leader has determined that all personnel are safe and that it is appropriate to fire the test, he will connect the detonator cables to the firing unit and proceed with the firing sequence.

After the test has been fired or aborted, the door interlock bypass key will be removed and returned to Access Control on the same day that the key was issued.

#### **ATTACHMENT 2**

# **Evaluation of Fragment Hazards**

# **BILL DAVIS' RULE**

| Fragment Distance = <u>Density of Fragment</u> | х | Thickness of Fragment /(Ft.) | х | Safety factor |
|------------------------------------------------|---|------------------------------|---|---------------|
| Density of Air                                 |   | in direction of travel       |   |               |

where:

Density of Air =  $10^{-3}$  g/cm<sup>3</sup> at Los Alamos altitude

Safety Factor: 5 for cars, and buildings 8 for people

#### FOR TYPICAL FRAGMENTS (NO BARRIER OR BARRICADES)

| Material | Density<br>g/cm3 | Fragment<br>Thickness (in.) | Fragment Distance (Ft.)<br>(Safety Factor = 8) |
|----------|------------------|-----------------------------|------------------------------------------------|
| Aluminum | 2.7              | 1/4"                        | 450                                            |
|          | -                | 1/2"                        | 900                                            |
|          |                  | 1"                          | 1800                                           |
| Brass    | 8.4              | 1/4"                        | 1400                                           |
|          |                  | 1/2"                        | 2800                                           |
|          |                  | 1"                          | 5600                                           |
| DU       | 18.7             | 1/4"                        | 3116                                           |
|          |                  | 1/2"                        | 6233                                           |
|          |                  | 1"                          | 12,466 (2.3 miles)                             |

#### Attachment 3

#### **Procedure For CDU Backvoltage Test**

The following is the procedure for backvoltage testing the 2500-volt CDU's at all TA-36 Firing Sites and TA-15-R-306. A Peschel Instruments, Model #H10 Backvoltage Tester will be used in this procedure. CDU's should be backvoltage tested before the first shot of every month by the firing site POC documented in the site logbook.

#### Note: Exercise Extreme Caution With High Voltage At All Times.

- 1. Identify CDU to be tested.
- 2. Disconnect all load cables and voltage dividers from all outputs.
- 3. Verify that the highvoltage adjustments on the tester is set to zero volts, tester off.
- 4. Connect tester to one of the CDU's outputs.
- 5. Turn on tester.
- 6. Check that tester is reset.
- 7. Increase tester High Voltage: Note voltage at breakdown.
- 8. Reduce voltage: Reset.
- 9. Repeat steps 7 and 8 several times.
- 10. Ensure that the tester highvoltage adjustment is set to zero volts and the tester meter indicates zero volts.
- 11. Turn off and disconnect tester.
- 12. Record voltage breakdown for that CDU.
- 13. Restore all CDU output connections.

# **DX-**4

## STANDARD OPERATING PROCEDURE

#### FOR

# **OPERATIONS OF OB/ODs and**

# **TA-36-12 BURN AREA (CAA) OPERATIONS**

# **SOP 28**

| Prepared by: | R. P. Archuleta, DX-4                       | Date:       |  |
|--------------|---------------------------------------------|-------------|--|
| Prepared by: | V. M. Sandoval, DX-4                        | Date:       |  |
| Approved by: | M. A. DeMaria, DX-4 ES&H Officer            | _ Date:     |  |
| Approved by: | G. W. Laabs, Acting DX-4 Group Leader       | Date:       |  |
| Approved by: | C. A. Nelson, DX-ES&H Deputy Facility Manag | Date:<br>er |  |
| Approved by: | C. M. Montoya, DX-DO Operations Leader      | Date:       |  |
|              |                                             |             |  |

Controlled Document Number:

# OPERATIONS OF OB/ODs and TA-36-12 BURN AREA (CAA) OPERATIONS

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#### **1.0 INTRODUCTION**

Explosive waste, reactive waste, and explosive-contaminated waste are generated as a result of DX Division R & D activities, Firing Site operations and other LANL operations. A small percentage of the tests conducted by DX Division also contain depleted uranium. Within this document, the materials that comprise explosive waste, explosive-contaminated waste and radioactive contaminated waste are defined; and their treatment procedures are described.

#### 2.0 PURPOSE

The purpose of this SOP is to describe the procedures for treating experimental related wastes, debris, and excess explosives.

#### 3.0 SCOPE

This SOP is applicable to all DX-Division personnel who treat waste at the following DX-4 Firing areas:

- TA-14 Mound 3 OB/OD
- TA-36-8 (OD)
- TA-36-12 (CAA Burn Area)
- TA-39-6 (OD)

#### 4.0 DEFINITIONS/ACRONYMS

- OB/OD Open Burn/Open Detonation
- CAA Clean Air Act

Definitions are covered in DX-4: SOP 03 General Safety, DX-4: SOP 04: General Firing Operations, and DX-DO: SOP 01 Waste Management in DX-Division.

#### 5.0 PERSONNEL RESPONSIBILITIES

#### 5.1 Required Reading

Each person who performs operations described in this SOP must read DX-4: SOP 03 General Safety, DX-4: SOP 04 General Firing Operations, DX-4: SOP 1.0 General Access Control (SOPs) and any other applicable SOPs, as determined by their supervisor.

#### 5.2 Training

DX-4: SOP 28 Original

RCRA OB/OD treatment unit operators are required to be assigned to and meet the requirements of the RCRA Hazardous/Mixed Waste Worker Training Plan #256. The RCRA and CAA unit operators shall be trained in accordance with the DX DivisionTraining Plan.

#### 6.0 **PRECAUTIONS AND LIMITATIONS**

#### 6.1 Waste Minimization

Waste generated from operations must be reduced as much as technically and economically feasible. To meet this objective, the waste minimization practices of material substitution, recycling, good housekeeping, and hazard segregation must be incorporated into all waste generating activities. All waste generators are responsible for making every practical effort to reduce the amount of waste produced. All firing operations will be conducted under site specific SOPs and appropriate permits.

#### 6.2 DX Waste Treatment Form

This form includes a description of the waste to be treated, the WPF number or waste codes associated with the waste, the quantity of each hazardous waste to be treated, the date of its treatment, where the waste came from, and the facility where the waste is treated. (See Attachment 3).

This form will be completed for each treatment operation for the units described above. The form shall be completed as soon as possible following the operation, but no longer than 5 working days. The original form will be included as part of the shot record and a copy sent to DX-Division Environmental Team. This form will be kept for the life of the OB/OD unit, plus 3 years.

#### 6.3 Location of OB/OD Areas and CAA Burn Area

The following is a list of treatment locations and applicable SOPs:

**6.3.1** TA-14 (OB/OD) and Site Specific Firing Operations are covered by DX-4: SOP 27 Q-Site East (TA-14) Firing Operations.

**6.3.2** TA-36-8 (OD) Site Specific Firing Operations are covered by DX-4: SOP 22 Area K-1, Site Specific.

**6.3.3** TA-36-12 (CAA Burn Area) Burn operations are covered by this SOP and other applicable SOPs

**6.3.4** TA-39-6 (OD) Site Specific Firing Operations are covered by DX-4: SOP 21 Explosives Firing Operations at TA-39-6, 57, & 88.

# 6.4 Weight Limitations

• As applicable in appropriate permits.

## 6.4.1 TA-14 (Q-Site) Mound 3 Weight Limitations

Weight limitations are as follows.

| Operation  | Weight Limitation               |
|------------|---------------------------------|
| Burning    | 50 lbs of combustibles per burn |
| Detonation | 9 kgs/20 lbs                    |

# 6.4.2 TA-36-8 Weight Limitations

| Operation  | Weight Limitation |
|------------|-------------------|
| Detonation | 907 kg/2000 lbs   |

#### 6.4.3 TA-36-12 CAA Burn Area

| Operation | Volume Limitation                                             |
|-----------|---------------------------------------------------------------|
| Burning   | 300 cubic meters per burn and 250 lbs lexan and/or plexiglass |

# 6.4.4 TA-39-6 Weight Limitations

| Operation  | Weight Limitation |
|------------|-------------------|
| Detonation | 91 kg/200 lbs     |

#### 7.0 PROCEDURAL STEPS

- 7.1 CAA Burn Area at TA-36-12
  - 7.1.1 Notification Requirements for TA-36-12 Burn Area (CAA)

Advance (five working days) notification indicating the date, time and place of the controlled burn must be sent to the following;

- DX-4 Group Leader/Team Leader/ES&H Officer
- DX ES&H Coordinator/Operations Coordinator
- DX-Division Environmental Team (See Attachment 1)
- Fire Department

The DX-Division Environmental Team will contact:

- ESH-17 Air Compliance Team
- EM&R (Emergency Management and Response)
- PA-1 (Public Information Group)

#### 7.1.2 Burning of Debris

The Lower Slobbovia area will be cleared and the site safety gate will be closed. In addition the safety chain at the entrance to the road that services the burn area and the sled track will be closed. The entire burning operation will be continually monitored by DX personnel. The firing site debris will be ignited 3 hours after sunrise in accordance with permit requirements. (See Attachment 3-Open Burn Checklist).

Paper and/or kimwipes with diesel fuel or kerosene will be used to aid in the ignition of the debris. A weed burner or matches will be used to ignite the paper and wood. Only DX personnel knowledgeable in burning operations will be allowed to ignite the pile. (See DX-4 authorizations and assignments document).

Fire department personnel will be present while the debris is being ignited but they will be located at a safe distance specified by the DX person in charge. Firefighters will remain on site until the Fire Department Supervisor at the scene determines that they may safely leave the burning material to be watched by DX personnel.

If the burn has not been completed by the end of the workday, a minimum of two DX employees will remain on site until the burn has been completed. DX-4 Group Management, the Fire Department, Station 100 (LANL Security Force Communications Center), and the DX Division Office must be notified that DX personnel will be present through the night to monitor the burning debris.

The DX-4 Group Leader or his Designee will make the determination of when the burn has been completed.

Note: Fire Department must be scheduled at least 24 hours in advance of the burn.

# 7.2 RCRA OB/OD Operations

# 7.2.1 Open Burning Operations at TA-14 (Q-Site)

HE and HE-contaminated waste shall be burned in the burn cage located on Mound 3. The cage shall be positioned so that it is in full view from the observation ports in Room 101 of Building 23.

Only small amounts of HE waste that would pose no hazard to the burn cage or the area, shall be burned.

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# OPERATIONS OF OB/ODs and TA-36-12 BURN AREA (CAA) OPERATIONS

Follow the procedures below for treating HE and HE Contaminated Waste.

| Step     | Action                                                                             |  |  |
|----------|------------------------------------------------------------------------------------|--|--|
| 1        | • Notify DX-Division Environmental Team (See Attachment 1) no less than            |  |  |
|          | 48 hours prior to the scheduled burn.                                              |  |  |
| 2        | • Clear Q-Site West (TA-14-34) and Mound 5 Q Site East to make sure that           |  |  |
|          | no unauthorized personnel are within the site.                                     |  |  |
|          | • Alert any personnel at Q-Site West that a burn operation is to occur and         |  |  |
|          | inform them of the type of material involved. Personnel can leave the area         |  |  |
|          | or if they stay in area they must remain under cover until given permission        |  |  |
|          | to leave by the Firing Leader.                                                     |  |  |
| 3        | Make sure that plenty of fuel (kerosene for example) is available to completely    |  |  |
|          | destroy the waste and the containers.                                              |  |  |
| 4        | • Uncover the burn cage                                                            |  |  |
|          | • Check the burn cage to see that no foreign objects are in the middle section     |  |  |
|          | where the waste will be placed, and                                                |  |  |
| <u> </u> | • Remove any that are found.                                                       |  |  |
| 5        | Check the bottom, for undestroyed material and treat properly.                     |  |  |
| 6        | Place the waste on the grate.                                                      |  |  |
| /        | Short the end of the detonator cable.                                              |  |  |
| 8        | Attach two igniters in parallel to the detonator cable and place them in the fuel  |  |  |
| 0        | Space.                                                                             |  |  |
| 9        | sprinkle fuel on the waste to and in the ignition.                                 |  |  |
|          | Note: Use only volatile hydrocarbons such as acetone or kerosene                   |  |  |
| 10       | Cover the top of the hum cage with wire mesh to minimize the escape of             |  |  |
|          | burning particles.                                                                 |  |  |
| 11       | Fire the ignitors using the firing control unit in Room 101 of Building O-23       |  |  |
|          | (See DX-4: SOP 27 Q-Site East (TA-14) Firing Operations).                          |  |  |
|          |                                                                                    |  |  |
|          | Note: The siren will go through its normal sequence, but the Firing Leader may     |  |  |
|          | turn the siren off after determining that the burn is progressing satisfactorily.  |  |  |
| 12       | • Wait for at least 10 minutes after visible reaction has stopped and              |  |  |
|          | • Then the Firing Leader will check the burn cage to determine if a safe           |  |  |
|          | condition exists.                                                                  |  |  |
|          | • Then sound the "all-clear" signal.                                               |  |  |
| 13       | In the event of a misfire, do not approach the area until at least 10 minutes have |  |  |
|          | elapsed without any evidence of reaction in the burn cage (See Attachment 2).      |  |  |
| 14       | DO NOT use the burn cage for another burn operation for 24 hours.                  |  |  |
| 15       | After 24 hours or more, remove the ashes and place in the satellite accumulation   |  |  |
|          | area outside Building 23.                                                          |  |  |
| 16       | Cover the burn cage with a tarp.                                                   |  |  |

# 7.2.2 RCRA Open Detonation Operations at TA-36-8, TA-39-6, and TA-14

**7.2.2.1 TA-36-8 Procedures for this operation are covered in DX-4 SOP 22, (Area K-1, Site Specifics)** 

**7.2.2.2 TA-39-6 Procedures for this operation are covered in DX-4 SOP 21** (Explosives Firing Operations at TA-39-6, 57, and 88)

**7.2.2.3 TA-14 Procedures for this operation are covered in DX-4: SOP 27 Q-Site East (TA-14) Firing Operations** 

# 8.0 **REQUIRED RECORDS**

- Waste Profile Form (OB/OD)
- Hazardous and Mixed Waste Facility Inspection Form (OB/OD)
- Shot Request Form (OD)
- Expended Materials Report (OD)
- Post Shot Report (OD)
- Firing Checklist (OD)
- Completed and signed TA-14 Q-Site Test Sheet (TA-14 only)
- Q-Site Check List Burning of HE and HE-Contaminated Waste (TA-14 only)
- DX Waste Treatment Form (all locations)

# 9.0 **REFERENCES**

- 5 Year Open Burn Permit (August 15, 1997 to December 31, 2002)
- DOE Explosives Safety Manual
- DX-DO: SOP 01 Waste Management and Generator Waste Certification Program in DX-Division
- DX-DO: SOP 03 Packaging and Transportation of Hazardous Materials
- DX-DO: SOP 07 Division Emergency Guide
- DX-4: SOP 03 General Safety
- DX-4: SOP 04 General Firing Operations
- DX-4: SOP 1.0 General Access Control
- DX-4: SOP 18 Firing at TA-15 PHERMEX Firing Point
- DX-4: SOP 21 Explosives Firing Operations at TA-39-6, 57, & 88
- DX-4: SOP 22 Area K-1 Site Specific
- DX-4: SOP 27 Q-Site East (TA-14) Firing Operations
- AR 10-8 Waste Minimization
- RCRA Interim Status Documents and Permit Applications for OB/OD

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# OPERATIONS OF OB/ODs and TA-36-12 BURN AREA (CAA) OPERATIONS

# **10.0 ATTACHMENTS**

Attachment 1. DX-Division Environmental TeamAttachment 2. DX-2 Check List for Burning of HE-Contaminated WasteAttachment 3. DX Waste Treatment Form

# Attachment 1

## DX-Division Environmental Team

The DX-Division Environmental Team contacts are:

Franco Sisneros 665-6978 and Michelle Cash 665-0223 -- dxenv@lanl.gov

At least one of the people listed above must be contacted preferably through e-mail, a minimum of two days prior to a burn at Q-Site (TA-14) and a minimum of 5 days at TA-36-12.

The DX-Division Environmental Team member will then contact ESH-17.

## Attachment 2

# **Check List for Burning of HE-Contaminated Waste (TA-14)**

| Requester   |  |
|-------------|--|
| Charge Code |  |

Date Burned

This checklist is intended for use as a safety supplement to DX-4: SOP 27 "Q-Site East (TA-14) Firing Operations." All Q-Site users must be familiar with DX-4: SOP 27. This checklist should be referred to by the Firing Leader subsequent to burning in the burn cage and prior to final arming. In the event of a misfire, follow the checklist on the other side of this page.

| OK | N/A |                                                                                                       |
|----|-----|-------------------------------------------------------------------------------------------------------|
|    |     | 1) Contact DX-Division Environmental Team                                                             |
|    |     | 2) Secure and clear area.                                                                             |
|    |     | 3) Fuel Available                                                                                     |
|    |     | 4) Ensure burn cage is clean.                                                                         |
|    |     | 5) Open all glass and plastic containers.                                                             |
|    |     | 6) Place waste material to be burned on grate.                                                        |
|    |     | 7) Short end of detonator cable.                                                                      |
|    | Q   | 8) Attach ignitors to detonator cable and place ingitors near waste materi                            |
|    |     | 9) Sprinkle fuel on waste material.                                                                   |
|    |     | 10) Cover top of burn cage with wire mesh.                                                            |
|    |     | 11) Connect detonator cable to the Capacitor Discharge Unit (CDU).                                    |
|    |     | 12) Start firing sequence.                                                                            |
|    |     | 13) Fire ignitors.                                                                                    |
|    |     | 14) Observe burning.                                                                                  |
|    |     | 15) Turn off siren; (do NOT sound "all-clear").                                                       |
|    |     | 16) Wait 10 min. after flame has stopped and sound "all-clear."                                       |
|    |     | 17) Another batch cannot be burned until 24 hours has elapsed.                                        |
|    |     | <ol> <li>Clean up ashes (after 24 hours) and place in satellite storage<br/>outside TA-23.</li> </ol> |
|    |     | 19) Cover burn cage with tarp.                                                                        |

Signature \_\_\_\_\_

Firing Supervisor

Date \_\_\_\_\_

Form Date 8/21/98 Approved by: \_\_\_\_\_ Date \_\_\_\_\_

In the event of a misfire, the following procedure will be followed:

| OK | N/A |                                                                                                                                                                                   |
|----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |     | <ol> <li>Do not sound the "all clear" and DO NOT LEAVE CONTROL<br/>ROOM.</li> </ol>                                                                                               |
|    |     | <ol> <li>Check all electrical connections and firing voltage in the control<br/>room.</li> </ol>                                                                                  |
|    |     | 3) Attempt to fire the ignitor again.                                                                                                                                             |
|    |     | 4) If the ignitor still does not fire, turn off all power to firing system.                                                                                                       |
|    |     | 5) Notify any personnel who are at Q-Site of the misfire.                                                                                                                         |
|    |     | <ul> <li>6) Wait a time considered appropriate by the firing leader (nominally<br/>10 minutes) while observing the burn cage for any signs of smoke<br/>or activity.</li> </ul>   |
|    |     | <ol> <li>If during the waiting period no activity is observed, <u>one</u> person<br/>shall approach the burn cage and disconnect the detonator cable<br/>from the CDU.</li> </ol> |
|    |     | 8) Disconnect the ignitor from the detonator cable.                                                                                                                               |
|    |     | <ol> <li>Check detonator leads and cable for continuity with an approved<br/>ohm meter.</li> </ol>                                                                                |
|    |     | 10) If the problem has been identified and corrected, firing operations may be checked by firing one or more ignitors.                                                            |
|    |     | 11) If the problem cannot be identified, notify the DX-2 and DX-4<br>Group Offices and DX-4 ES&H Officer, secure the area, and await<br>further instructions.                     |

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# **ATTACHMENT 3**

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# **DX WASTE TREATMENT FORM**

| Date of Treatment                                                                                                                                                                                                                                                                                              |                                  | Treatment Operator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--|
| Location of Treatment:                                                                                                                                                                                                                                                                                         | 🗖 TA-14 (OD)                     | <b>T</b> A-14 (OB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>TA-36-8</b> (OD)                         |  |
|                                                                                                                                                                                                                                                                                                                | <b>T</b> A-39-6 (OD)             | ) 🗖 TA-36-12 (CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | A)                                          |  |
| **************************************                                                                                                                                                                                                                                                                         |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |
| Description of Waste:                                                                                                                                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |
| Quantity/Volume:                                                                                                                                                                                                                                                                                               | 🗖 po<br>ga<br>met & for TA-36-12 | unds  grams  unds  unds  grams  unds  unds  under  under | kilograms<br>and weight of Lexan/plexiglas) |  |
| **************************************                                                                                                                                                                                                                                                                         |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |
| Description of Waste:                                                                                                                                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |
| Quantity/Volume:                                                                                                                                                                                                                                                                                               | 🗖 po<br>ga<br>met & for TA-36-12 | unds  grams  unds  view grams  unds  unds  under                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | kilograms<br>and weight of Lexan/plexiglas) |  |
| *****                                                                                                                                                                                                                                                                                                          | *******                          | *****                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *****                                       |  |
| WPF#/Waste Code(s):                                                                                                                                                                                                                                                                                            |                                  | Point of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Origin:                                     |  |
| Description of Waste:                                                                                                                                                                                                                                                                                          | <u> </u>                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |
| Quantity/Volume:                                                                                                                                                                                                                                                                                               | 🗖 po<br>🗍 ga                     | unds 🗖 grams 🗖<br>llons 🗖 other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | kilograms                                   |  |
| (ensure weight limitations are met & for TA-36-12 indicate weight of wood and weight of Lexan/plexiglas)                                                                                                                                                                                                       |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |
| **************************************                                                                                                                                                                                                                                                                         |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |
| Original to be included as part of the shot record.<br>Send copy to the DX Division Environmental Team @ MS P915, fax 7-0288 or <u>dxenv@lanl.gov</u><br>within 5 working days of treatment operation.<br>If sending form by e-mail, the e-mail address from the sender/operator will suffice as the signature |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |  |

# ATTACHMENT H

# ENVIRONMENTAL PERFORMANCE STANDARDS

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# TABLE NO.

# <u>TITLE</u>

H-1 Pertinent Existing Wells Within a Three-Mile Radius of Technical Area 36
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## LIST OF ABBREVIATIONS/ACRONYMS

| AEHA        | U.S. Army Environmental Hygiene Agency                      |
|-------------|-------------------------------------------------------------|
| cm/hr       | centimeters per hour                                        |
| cm          | centimeter                                                  |
| DOE         | U.S. Department of Energy                                   |
| EPA         | U.S. Environmental Protection Agency                        |
| HWP         | LANL's "Hydrogeologic Workplan"                             |
| LAAO        | Los Alamos Area Office                                      |
| LANL        | Los Alamos National Laboratory                              |
| 20 NMAC 4.1 | New Mexico Administrative Code, Title 20, Chapter 4, Part 1 |
| NMED        | New Mexico Environment Department                           |
| NPDES       | National Pollutant Discharge Elimination System             |
| OD          | open detonation                                             |
| RCRA        | Resource Conservation and Recovery Act                      |
| SOP         | standard operating procedure                                |
| SWPP        | Storm Water Pollution Prevention                            |
| ТА          | technical area                                              |

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### LIST OF SUPPLEMENTS

#### SUPPLEMENT NO.

### <u>TITLE</u>

- H-1 Potential Contaminant Migration Transport Pathways for Surface Water and Groundwater
- H-2 The New Mexico Environment Department=s August 17, 1995, Letter to the Department of Energy Los Alamos Area Office Regarding Comments Concerning Groundwater Contamination and Protection at Los Alamos National Laboratory (LANL), Los Alamos, New Mexico
- H-3 Measures Implemented to Comply with the National Pollutant Discharge Elimination System Multi-Sector General Permit
- H-4 Results Summary of the Soil Sampling Survey Conducted over Active Firing Site at Technical Area 36, Building 8
- H-5 Correction of Data for the Soil Sampling Survey Conducted over Active Firing Site at Technical Area 36, Building 8
- H-6 Air Quality Impact Modeling

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### ATTACHMENT H

## ENVIRONMENTAL PERFORMANCE STANDARDS

The TA-36 open detonation (OD) unit is located in a remote area of Los Alamos National Laboratory (LANL). The unit will be operated, maintained, and closed in a manner that will ensure protection of human health and the environment, in accordance with the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart V, 264.601, revised January 1, 1997 [1-1-97]. Geologic and hydrologic characteristics of the LANL facility and land use patterns in the Los Alamos area are discussed in Section 2.0 of the ALos Alamos National Laboratory General Part B Permit Application,≅ Revision 1.0 (LANL, 1998a), hereinafter referred to as the LANL General Part B.

The OD unit at Technical Area (TA) 36 has been designed to facilitate safe handling and treatment of wastes in order to prevent adverse human health and environmental impacts. Design information and waste management practices for this unit are detailed in Sections 2.1 and 2.2 of this permit application. The waste analysis plan for this unit is included as Appendix B of the LANL General Part B. A description of emergency response actions to be taken to minimize adverse impacts of unanticipated events are described in the contingency plan (see Attachment E of this document and Appendix E of the LANL General Part B).

Standard operating procedures (SOP) are followed at the TA-36 OD unit to minimize the potential for environmental contamination that may result from precipitation contacting treatment residues. Residues resulting from treatment activities may consist of metallic shards and occasional pieces of propellants, explosives, or pyrotechnics. SOPs for OD units require that the firing site leader thoroughly survey the area after each detonation and collect all identifiable pieces of explosives. The damaged explosives are then weighed and an estimate of the amount of material remaining at the unit is recorded in the site record logbook. Every effort is made to minimize the quantity of explosive and nonexplosive residues remaining at a unit. SOPs that are applicable for access and operations at the TA-36 OD unit are included as Attachment G. They are provided for informational purposes only.

# H.1 <u>PROTECTION OF GROUNDWATER/VADOSE ZONE</u> [20 NMAC 4.1, Subpart V, 264.601(a)]

As required by 20 NMAC 4.1, Subpart V, 264.601(a) [1-1-97], the TA-36 OD unit is located in a remote area and is operated in a manner that prevents releases that may have adverse affects to

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human health or the environment due to migration of waste constituents through the vadose zone to groundwater. The following sections provide information on the potential for adverse effects on human health or the environment as a result of operations at the TA-36 OD unit as well as describe monitoring and reporting efforts that have been or will be undertaken to assess the impact of OD operations.

## H.1.1 Hydrogeologic Assessment and Potential Pathways and Exposure Routes

The TA-36 OD unit is located in a semiarid, temperate, mountain climate. The average annual precipitation in Los Alamos is 18.73 inches (LANL, 1996a). The evaporation rate of free-standing water exceeds the average annual precipitation. Permeability rates for soils in the vicinity of the TA-36 OD unit range from 5 to 15 centimeters per hour (cm/hr) in the top 10 cm to 1.5 to 15 cm/hr from 10 to 50 cm depth. The available water-holding capacity is 0.07 to 0.21 cm/cm (Nyhan et al., 1978). In addition, it is estimated that 600 to 1,200 feet of unsaturated tuff and volcanic rock separate the facility's soil surface from the regional aquifer. Collectively, the depth to the uppermost aquifer and the annual moisture deficit significantly limit the potential for contaminants to migrate through the vadose zone to groundwater.

An evaluation of possible waterborne waste transport pathways for groundwater and their potential for migration is included as Supplement H-1, which lists the possible contaminants of concern and shows their origin and nature.

The only aquifer in Los Alamos capable of municipal and industrial water supply is the regional aquifer. No supply wells or test wells are located within the boundary of TA-36 or within 3,500 feet of the TA-36 OD unit.

A detailed description of the hydrogeologic characteristics immediately below the OD unit at TA-36 is not currently documented in published or internal reports. However, a discussion of surface water, the vadose zone, and groundwater specific to Operable Unit 1130, which includes TA-36, and a conceptual hydrogeologic model of the area is presented in Sections 3.5 and 3.6 of the "RFI Work Plan for Operable Unit 1130" (LANL, 1993a). Published precipitation data for TA-36 do not exist; however, a precipitation measurement site is located at TA-49, southwest of TA-36, and annual precipitation at this site is 22.27 inches per year (LANL, 1998b). As stated above, no supply wells are located within 3,500 feet of the TA-36 OD unit, and there are no supply wells located within the boundaries of TA-36. The closest production well, PM-2, is located 6,250 feet northeast of the

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TA-36 OD unit. The groundwater flow direction beneath LANL is generally east-southeast. It is highly unlikely that any measurable pumping effects from PM-2 will be seen at TA-36. Therefore, withdrawal rates are not applicable to the TA-36 OD unit at LANL.

## H.1.2 Monitoring and Reporting

LANL has an established groundwater monitoring system to assess the quality of groundwater in the Los Alamos area. The monitoring network includes test wells, supply wells, gaging stations, observation wells, and other hydrogeologic devices located both inside and outside LANL boundaries. Figures A-9 and A-10 in Attachment A show existing and proposed wells and holes within an approximate three-mile radius of TA-36. Figure A-9 illustrates the locations of <u>all</u> types of wells; Figure A-10 shows the locations of pertinent wells (i.e., alluvial and regional wells proposed in LANL=s AHydrogeologic Workplan≅ (HWP) [LANL, 1998c], environmental surveillance groundwater monitoring wells, and water supply wells). These figures are provided for informational purposes only. Their incorporation into the permit would be inappropriate due to the potential dynamic nature of proposed well locations.

Routine samples are analyzed for toxic constituents, basic water quality, and resource depletion. The sampling results are published in annual environmental surveillance reports and annual water supply reports. These documents are provided regularly to the New Mexico Environment Department (NMED). A table listing the existing routinely monitored wells shown on Figure A-10 and the monitoring schedule for these wells is included as Table H-1. This table is provided for informational purposes only. Details on the Environmental Surveillance Groundwater Monitoring Plan can be found in the "Groundwater Protection Management Program Plan" (LANL, 1995).

The U.S. Army Environmental Hygiene Agency's (AEHA) "RCRA Part B Permit Writer's Guidance Manual for Department of Defense Open Burning/Open Detonation Units" (AEHA, 1987) states that "OD units, where proper operational procedures are followed (particularly management of residuals), are exempt from the ground-water protection requirements." It goes on to state that "ground-water monitoring at OD units was deemed to be both impractical and unnecessary." Proper operational procedures are followed at the TA-36 OD unit and materials not consumed in a detonation are collected for treatment by detonation. The proper operating procedures at the OD unit meet the criteria for exemptions from groundwater monitoring.

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The NMED's August 17, 1995, letter to the U.S. Department of Energy (DOE) Los Alamos Area Office (LAAO) (see Supplement H-2) required LANL to develop a Resource Conservation and Recovery Act (RCRA) site-wide hydrogeologic workplan and to submit this workplan to the NMED and the U.S. Environmental Protection Agency (EPA) for review and approval. Part of the workplan objective was to address RCRA groundwater monitoring requirements for regulated units; implementation of the plan will also provide information on the hydrology below the OD unit at TA-36. The HWP was developed as a comprehensive, facility-wide approach rather than a unit-by-unit program. The most recent HWP (LANL, 1998c) was prepared and submitted to the NMED in December 1996, and was approved in March 1998.

The HWP proposes the construction and subsequent sampling of four (4) alluvial wells and four (4) regional aquifer wells upgradient from, adjacent to, and down gradient from TA-36 in Cañon de Valle, Water Canyon, and Potrillo Canyon. Well installation will characterize the alluvial, intermediate perched, and regional aquifer zones for a more complete understanding of the hydrogeologic setting. However, the proposed iterative characterization and well installation process will incorporate new data with existing data as input to modeling activities and will then be used to reassess additional data needs; therefore, it may be determined that one or more of the wells are not necessary. In any case, the general objectives of the eight (8) proposed wells near TA-36 are described in Sections 4.3.6.2 and 4.3.6.4 of the workplan and are summarized herein.

The planned alluvial wells include A-43 and A-44 down gradient in Potrillo Canyon, A-47 upgradient near the confluence of Cañon de Valle and Water Canyon, and A-48 upgradient in Water Canyon. Alluvial well A-43 is proposed to identify the presence and quality of alluvial groundwater and will serve to track contaminants moving in the alluvial groundwater. Alluvial well A-44 will be located about 0.25 mile west of the confluence with Fence Canyon and will be used to evaluate the presence and quality of alluvial groundwater. Alluvial well A-47 is proposed to evaluate the presence of alluvial water and to measure the saturated thickness, water quality, and parameters controlling infiltration and contaminant migration. Well A-48 will be used to determine the presence and downstream extent of alluvial water.

There is no final schedule for installation of the alluvial wells proposed in the HWP (LANL, 1998c). The wells were proposed in the workplan for potential characterization purposes (e.g., to identify the presence of alluvial water, measure alluvial parameters that control infiltration and contaminant migration, analyze the alluvial water quality, evaluate possible migration of contaminants, and/or

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measure saturated thickness). The number of proposed wells may increase or decrease, and the locations of the proposed wells may change, depending on characterization needs. Schedules for installation of these proposed wells will be developed when the work plans for various canyons investigations are prepared; monitoring schedules will then be determined and discussed with the NMED only after installation and initial characterization are completed, and a determination is made that repetitive monitoring is necessary.

The planned regional aquifer wells include R-23 down gradient in Potrillo Canyon, R-27 upgradient and near the confluence of Cañon de Valle and Water Canyon, and R-28 and R-29 down gradient in Water Canyon. All of the regional aquifer wells will characterize the intermediate perched zone(s) as the wells are drilled. The purpose of well R-23 will be to investigate the presence of intermediate perched zones and to characterize the water quality of these zones down gradient from firing sites in Potrillo Canyon. Data from well R-23 will also be used to provide water quality data for the regional aquifer. Well R-27 will be located below the confluence of Water Canyon and Cañon de Valle, which is upgradient from the OD unit at TA-36. This well will be used to identify intermediate perched zones and the depth to the regional aquifer, and data from this well will be used to characterize the water quality of the intermediate perched zones and the regional aquifer. Wells R-28 and R-29 will be located down gradient of well R-27. Data from well R-28 will also be used to provide water quality information for any intermediate perched zones and the regional aquifer. Data from well R-29 will be used to provide water quality information for any intermediate perched water zones and the regional aquifer as well as to provide regional aquifer water-level information. In addition, water chemistry data from the intermediate perched zones and the regional aquifer at well R-29 will be compared to that from springs to identify potential flow paths near the Rio Grande.

The anticipated installation sequence for the regional wells proposed in LANL's HWP is presented in Table 4-2 of that plan. As LANL=s understanding of the hydrogeologic setting and contaminant distributions improves over time, additions, deletions, or location changes of some proposed regional wells may occur. A schedule for monitoring any proposed regional wells deemed necessary will be discussed with the NMED after installation and initial characterization are completed.

Well designs will follow specifications in Section 4.1.1 of the HWP. As presented in Sections 4.1.3 and 4.1.4 of the workplan, sample collection, preservation, shipment, quality assurance/quality control procedures, sampling and analysis procedures, data evaluation, and reporting will be

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conducted according to Environmental Restoration Project Quality Assurance Project Plans, SOPs, RCRA Facility Investigation workplans, and sampling and analysis plans. The parameters that will be analyzed for include those listed in Table K-1 in Attachment K of this document. Monitoring well evacuation will be conducted in accordance with guidelines in EPA's "RCRA Ground-Water Monitoring Technical Enforcement Guidance Document" (EPA, 1986). Background groundwater values will be collected from planned alluvial well A-45 and planned regional aquifer well R-24. These background data will be used to calculate a background mean and variance, per the guidance in Appendix IV of 20 NMAC 4.1, Subpart V [1-1-97]. Data collected during activities performed for the HWP will provide more detailed information on groundwater direction and flow rate, and on plume migration rate in case of groundwater contamination.

Previous hydrogeologic studies at LANL (IT Corporation, 1987) have shown very low moisture content in the Bandelier Tuff, the empirical determination that moisture from precipitation does not infiltrate below a depth of 10 to 22 feet, and very low calculated flux rates. The combination of these factors suggests that aqueous transport of contaminants through the tuff is not a viable mechanism for contaminant migration from mesatops. Therefore, it is highly unlikely that shallow and regional groundwater systems in the vicinity of the TA-36 unit have been impacted by OD activities. Furthermore, the risk assessment conducted for TA-36 concludes that after nearly 50 years of operations at TA-36, the current level of contaminants for surface soil does not pose a threat to human health (see Attachment J). Therefore, rather than conducting vadose zone monitoring for the OD unit at TA-36, LANL proposes to first address surface systems (surface water, soil, and sediments) and use resulting surface systems analytical data in conjunction with existing data in an iterative manner to reassess additional data needs and thus optimize characterization and monitoring activities. Soil and sediment data will be collected as described in Attachment K for soil monitoring; surface storm water discharge data will be collected in accordance with the National Pollutant Discharge Elimination System (NPDES) Storm Water Pollution Prevention (SWPP) Plan for the site, as required by the NPDES Multi-Sector General Permit. The proposed iterative process for the OD unit at TA-36 will promote technical efficiency by first addressing the surface systems; proceeding with vadose zone monitoring would then be conducted only if continuing reassessments indicate a need, depending on the interpretation of the surface data. If surface sampling data indicate that RCRA contaminants resulting from OD treatment are present and if the mobility of these contaminants so warrants, a vadose zone monitoring program will then be established and conducted.

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# H.2 <u>PROTECTION OF SURFACE WATER/WETLANDS</u> [20 NMAC 4.1, Subpart V, 264.601(b)]

As required by 20 NMAC 4.1, Subpart V, 264.601(b) [1-1-97], the TA-36 OD unit is located in a remote area and is operated in a manner that prevents any releases that may have adverse affects on human health or the environment due to migration of waste constituents in surface waters or wetlands. The following sections provide information on the potential for adverse effects to human health or the environment as a result of operations at the OD unit as well as describe monitoring and reporting efforts that have been or will be undertaken at the unit to assess the impact of operations.

## H.2.1 Hydrologic Assessment and Potential Pathways and Exposure Routes

Net annual precipitation for the Los Alamos area, including the site of the TA-36 OD unit, is low. In addition, surface waters within LANL are limited to ephemeral, interrupted, or intermittent flows in the canyon bottoms that result from rainfall or snowmelt. The locations of these surface waters, including intermittent streams, are shown on Figure A-2 in Attachment A. The TA-36 site is located near the headwaters of Fence Canyon, which connects geographically to Potrillo Canyon but does not discharge to it.

Canyon bottom surface waters from Potrillo Canyon downstream of the firing site at TA-36 eventually flow into Water Canyon. A gaging station in Water Canyon, located about 2.5 miles upstream of the Rio Grande, recorded a maximum discharge of 0.21 cubic feet per second in the 1995 water year. There was no flow most of the time (LANL, 1996a). In the 1998 water year, there was no flow all year (LANL, 1998d).

The TA-36 OD unit is a part of the University of California/DOE NPDES Multi-Sector General Permit for storm water discharges associated with industrial activity (Permit Numbers NMR05A509 and NMR05A510, effective January 1, 1999). An SWPP Plan, as required by the NPDES Multi-Sector General Permit, has been developed for the TA-36 OD unit. The plan is designed to identify any potential pollutants and to provide pollution prevention or control methods to prevent the discharge of pollutants in storm water runoff at the unit and the surrounding area. Under the SWPP Plan, the facility is required to implement best management practices to reduce the likelihood of pollutants entering the storm water discharges. To this end, the following practices have been adopted at the TA-36 OD unit:

## Good Housekeeping

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- B Regular maintenance of the area is performed to ensure that it is clean and orderly
- ∃ SOPs have been written specifying proper waste handling to minimize the exposure of waste and waste residues to precipitation
- B Regular inspections of the area are performed to ensure SOPs are being followed

#### Spill Prevention and Response

Bersonnel are trained in material handling and release notification procedures

#### Visual Inspections

∃ Pollution prevention personnel inspect and log information concerning site drainage, erosion, non-storm-water discharges, and changes in adjacent facilities that may affect the potential for storm water pollution.

Under the NPDES Multi-Sector General Permit, the measures described in Supplement H-3 also apply to the TA-36 OD unit.

An evaluation of possible waterborne waste transport pathways for surface water and their potential for migration is included as Supplement H-1, which lists some possible contaminants of concern and shows their origin and nature.

As stated previously, the TA-36 OD unit is located in the vicinity of the headwaters of Fence Canyon. Fence Canyon is geographically connected to Potrillo Canyon, which discharges to Water Canyon; however, Fence Canyon does not have a discharge into Potrillo Canyon. The stream flow in Fence Canyon and Potrillo Canyon is ephemeral and occurs only as the result of rainfall or snow melt. A discharge sink, which is a geomorphologic feature, has been identified in Potrillo Canyon. The discharge sink absorbs stream flow and traps incoming sediments. Immediately downstream from the sink, there is no evidence of stream flow. Surface waters from the upstream portion of the Potrillo Canyon watershed do not contribute to flows that reach the Rio Grande through Water Canyon (LANL, 1993a).

Contaminants that may potentially be released from the TA-36 OD unit are likely to include residual explosives or RCRA metals (e.g., lead) (LANL, 1994, 1993b). These contaminants may reach nearby surface waters in one or more of the following ways: (1) direct (airborne) deposition from OD operations; (2) transport by surface water runoff; and (3) wind erosion and deposition of

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contaminated soils. The nature and extent of soil contamination at the TA-36 firing site is presented in Section H.3.

## H.2.2 Monitoring and Reporting

Under the current NPDES Multi-Sector General Permit, surface water monitoring is required and will be conducted following LANL=s Watershed Management Plan (LANL, 1999 [in preparation]). Currently, there are no surface water data available for the TA-36 OD site. The following paragraphs detail surface water reporting and proposed monitoring strategies for the TA-36 OD unit, in accordance with the requirements in 20 NMAC 4.1, Subpart V, 264.602 [1-1-97].

In order to maintain compliance with the NPDES Multi-Sector General Permit, semiannual site inspections are conducted at TA-36 to evaluate the effectiveness of the SWPP Plan. The inspections are documented in an inspection report that describes any major observations, incidents of noncompliance with the SWPP Plan, corrective actions, and any observations or changes made with respect to the SWPP Plan.

The SWPP Plan for the TA-36 OD unit proposes quarterly storm water quality sampling near the unit. Monitoring strategies proposed in the AWatershed Management  $Plan \cong (LANL, 1999 [in preparation])$  include sampling at existing environmental surveillance surface water stations and at NPDES storm water runoff stations to provide storm water monitoring by watershed rather than by individual sites. As conditions allow, each station will be sampled four (4) times per year on a quarterly basis. Should conditions preclude quarterly seasonal sampling, samples will be collected four (4) times per year as flow is available. Where stations experience little or no flow, samples will be collected whenever there is flow, up to four (4) times per year.

## H.3 PROTECTION OF SOIL SURFACE [20 NMAC 4.1, Subpart V, 264.601(b)]

As required by 20 NMAC 4.1, Subpart V, 264.601(b) [1-1-97], the TA-36 OD unit is located in a remote area and is operated in a manner that minimizes or prevents releases that may have adverse affects to human health or the environment due to migration of waste constituents on the soil surface. The following sections provide information on the potential for adverse effects to human health or the environment as a result of operations at the TA-36 OD unit as well as describe monitoring and reporting efforts that have been or will be undertaken to assess the impact of operations at the unit.

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## H.3.1 Geologic Assessment and Potential Pathways and Exposure Routes

The texture of the soils in Los Alamos County range from very fine clay and sandy loams to gravelly, sandy loams and stony, clay loams. Soil erosion by storm water or winds could potentially transport contaminants from the TA-36 OD unit to surrounding areas. Natural sediment storage features created by surface water runoff, such as stream bank and bar deposits or drainage channels, could contain heavy metals or explosives residues redistributed from the TA-36 OD unit.

SOPs for the unit have been developed and are followed to limit the amount of contamination that may enter or remain in the soil after a detonation. Preventative measures include good housekeeping procedures (as specified in SOPs) and using a sufficient charge to ensure complete destruction and effective treatment of the wastes.

### H.3.2 Monitoring and Reporting

The following paragraphs detail soil monitoring efforts that have been or are proposed to be performed at the TA-36 OD unit, in accordance with the requirements in 20 NMAC 4.1, Subpart V, 264.602 [1-1-97].

In August and September of 1992, soil, sediment, and rinsate samples were collected from the TA-36 OD unit area (LANL, 1993b). Samples were laboratory-analyzed for Toxicity Characteristic Leaching Procedure metals, total metals (aluminum, barium, beryllium, copper, iron, and lead), semivolatile organic compounds, total uranium, and explosives residues. The results of the 1992 soil sampling surveys are summarized in Supplements H-4 and H-5; the analytical results are included in Attachment L. Potential contamination is believed to be limited to the surface (i.e., the first few inches) of the site.

LANL proposes a Soil Monitoring Program as the preferred approach to meet the monitoring and analysis requirements of 20 NMAC 4.1, Subpart V, 264.602 [1-1-97]. The proposed ASoil Monitoring Program and the Post-Detonation Soil Sampling and Analysis Plan for the Open Detonation Unit at Technical Area 36" are included herein as Attachment K.

## H.4 PROTECTION OF THE ATMOSPHERE [20 NMAC 4.1, Subpart V, 264.601(c)]

As required by 20 NMAC 4.1, Subpart V, 264.601(c) [1-1-97], the TA-36 OD unit is located in a remote area within LANL boundaries and is operated in a manner that prevents any releases that may have adverse affects to human health or the environment due to migration of waste

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constituents to the atmosphere. The following sections provide information on the potential for adverse effects to human health or the environment as a result of operations at the TA-36 OD unit as well as describe monitoring and reporting efforts that have been or will be undertaken to assess the impact of operations at the unit.

## H.4.1 <u>Meteorologic Assessment and Potential Pathways and Exposure Routes</u>

Surface winds in Los Alamos are light, averaging seven miles per hour. The predominant prevailing wind direction is from the southwest to the northeast. Under normal conditions, resuspension of particulates is limited. Figures A-5 and A-6 in Attachment A of this permit application show the wind roses for TA-49, where the wind observation tower closest to the TA-36 OD unit is located.

By definition, OD units do not utilize air pollution control equipment. Releases resulting from the treatment of waste at the TA-36 OD unit are not likely to exceed a maximum exposure duration of 15 minutes and would most likely be a one-time exposure for any individual receptor. Various types of explosives mixtures are treated at the TA-36 OD unit. The regulated pollutants produced as a result of these detonations are the criteria pollutants (e.g., carbon monoxide, nitrogen oxides, and particulate matter), some heavy metals (e.g., lead), and a small amount of hazardous air pollutants (e.g., hydrogen chloride, hydrogen fluoride).

An EPA-type gaussian plume model was employed with a puff type release function to simulate the airborne release resulting from the TA-36 OD unit. The worst-case waste treatment and receptor location were used in the scenario (i.e., a 2,000-pound treatment). Release heights and release fractions for a detonation cloud resulting from a typical 50-pound explosive detonation were determined. Airborne effluents were assumed to be transported directly to the potential receptors, using median dispersion factors for the Los Alamos area. Source terms or the pollutants generated during treatment activities were estimated using published emission factors (AP-42, developed by EPA [EPA, 1995]), mass balance calculations, process knowledge, and engineering estimates. Impacts were evaluated for pollutants generated as a result of treatment and regulated under National and New Mexico Ambient Air Quality Standards. The results of this analysis indicate that none of the regulated air contaminant concentrations exceed federal or state ambient air quality standards.

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## H.4.2 Monitoring and Reporting

The following details atmospheric monitoring efforts that have been or are scheduled to be performed at the TA-36 OD unit, in accordance with the requirements in 20 NMAC 4.1, Subpart V, 264.602 [1-1-97].

Air quality impact modeling, provided as Supplement H-6, shows that a worst-case scenario using the maximum allowable treatment capacity of the OD unit at TA-36 resulted in concentrations far below the ambient air quality standards. In addition, the National Park Service, the NMED, and LANL all agreed in 1994 that the low levels of ambient air criteria pollutants measured over a three-year period at the site of the nearest receptor did not warrant further ambient air monitoring. Therefore, ambient air quality monitoring is not warranted at the TA-36 OD unit.

## H.4.3 Operating Conditions/Effectiveness and Reliability of Systems and Structures

Operating conditions for the TA-36 OD unit include not conducting detonation operations during adverse weather conditions (e.g., electrical storms, high winds) and accepting only a maximum of up to 2,000 pounds of waste explosives per treatment by detonation. Beginning in 1990, NMED operated the LANL-owned criteria pollutant (ambient air) monitoring station at TA-49, adjacent to Bandelier National Monument and approximately 10,000 feet west-southwest of the TA-36 OD unit. The original purpose of this site was to collect baseline data for Bandelier National Monument over a three-year period. In 1994, the National Park Service, the NMED, and LANL all agreed that the original purpose of the study was fulfilled and that the low levels of pollutants measured did not warrant further study at the site (LANL, 1996b). Therefore, the ambient air monitoring was discontinued on September 30, 1994.

## H.5 <u>REFERENCES</u>

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## Table H-1

| Existing Well<br>ID | Well Type | Purpose     | Monitoring/Sampling<br>Frequency | Analyses                                                      | Notes                                                                                            |
|---------------------|-----------|-------------|----------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| MCO-4/-4B           | Alluvial  | Observation | Annually                         | Radiochemistry (R),<br>Metals (M), General<br>Inorganics (GI) | Old MCO-4 out of service;<br>MCO-4B installed pursuant to<br>requirements in the HSWA<br>Module. |
|                     |           |             | Triennially                      | Organics (O)                                                  |                                                                                                  |
|                     |           |             | Quarterly for 1995               | R, M, GI, O                                                   |                                                                                                  |
| MCO-4A              | Alluvial  | Observation | Quarterly for 1995               | R, M, GI, O                                                   | HSWA Module <sup>a</sup> . Well is dry.                                                          |
| MCO-5               | Alluvial  | Observation | Annually                         | R, M, GI                                                      |                                                                                                  |
|                     |           |             | Triennially                      | 0                                                             |                                                                                                  |
| MCO-6               | Alluvial  | Observation | Annually                         | R, M, GI                                                      |                                                                                                  |
|                     | 5 M M     |             | Triennially                      | 0                                                             |                                                                                                  |
|                     |           |             | Quarterly for 1995               | R, M, GI, O                                                   |                                                                                                  |
| MCO-6A              | Alluvial  | Observation | Quarterly for 1995               | R, M, GI, O                                                   | HSWA Module. Well is dry.                                                                        |
| MCO-6B              | Alluvial  | Observation | Quarterly for 1995               | R, M, GI, O                                                   | HSWA Module.                                                                                     |
| MCO-7               | Alluvial  | Observation | Annually                         | R, M, GI                                                      |                                                                                                  |
|                     |           |             | Triennially                      | 0                                                             |                                                                                                  |
|                     |           |             | Quarterly for 1995               | R, M, GI, O                                                   |                                                                                                  |
| MCO-7A              | Alluvial  | Observation | Quarterly for 1995               | R, M, GI, O                                                   | HSWA Module.                                                                                     |
| MCO-7.5/-7.5A       | Alluvial  | Observation | Annually                         | R, M, GI                                                      | MCO-7.5 demolished by falling tree; MCO-7.5A now sampled.                                        |
|                     |           |             | Triennially                      | 0                                                             |                                                                                                  |

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| Existing Well<br>ID | Well Type | Purpose     | Monitoring/Sampling<br>Frequency | Analyses                  | Notes                                                                                 |
|---------------------|-----------|-------------|----------------------------------|---------------------------|---------------------------------------------------------------------------------------|
| MCO-8/-8A           | Alluvial  | Observation | Annually                         | M, GI, Module II Organics | MCO-8 damaged beyond<br>repair in 1976. MCO-8A for<br>Module II. Well is usually dry. |
| WCO-1               | Alluvial  | Observation | Quarterly for 1995               | R, M, GI, O               | HSWA Module. Well is dry.                                                             |
| CDBO-4              | Alluvial  | Observation | Annually                         | R, M, GI                  | Well is dry.                                                                          |
|                     |           |             | Triennially                      | 0                         |                                                                                       |
| CDBO-5              | Alluvial  | Observation | Annually                         | R, M, GI                  | Well is dry.                                                                          |
|                     |           | 9) com      | Triennially                      | 0                         |                                                                                       |
| CDBO-6              | Alluvial  | Observation | Annually                         | R, M, GI                  | Volume sometimes insufficient to sample.                                              |
|                     | 8040148   |             | Triennially                      | 0                         |                                                                                       |
| CDBO-7              | Alluvial  | Observation | Annually                         | R, M, GI                  | Well is sometimes dry.                                                                |
|                     |           |             | Triennially                      | 0                         |                                                                                       |
| CDBO-8              | Alluvial  | Observation | Annually                         | R, M, GI                  | Well is dry.                                                                          |
|                     |           |             | Triennially                      | 0                         |                                                                                       |
| CDBO-9              | Alluvial  | Observation | Annually                         | R, M, GI                  | Well is dry.                                                                          |
|                     |           |             | Triennially                      | 0                         |                                                                                       |
| LAO-2               | Alluvial  | Observation | Annually                         | R, M, GI                  |                                                                                       |
|                     |           |             | Triennially                      | 0                         |                                                                                       |
| LAO-3               | Alluvial  | Observation | Annually                         | R, M, GI                  |                                                                                       |
|                     |           |             | Triennially                      | 0                         |                                                                                       |

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| Existing Well<br>ID | Well Type    | Purpose     | Monitoring/Sampling<br>Frequency | Analyses | Notes |
|---------------------|--------------|-------------|----------------------------------|----------|-------|
| LAO-4               | Alluvial     | Observation | Annually                         | R, M, GI |       |
|                     |              |             | Triennially                      | 0        |       |
| LAO-4.5             | Alluvial     | Observation | Annually                         | R, M, GI |       |
|                     |              |             | Triennially                      | 0        |       |
| DT-5A               | Regional     | Monitoring  | Annually                         | R, Gl    |       |
|                     |              |             | Triennially                      | M, O     |       |
| DT-9                | Regional     | Monitoring  | Annually                         | R, Gl    |       |
|                     |              |             | Triennially                      | M, O     |       |
| DT-10               | Regional     | Monitoring  | Annually                         | R, GI    |       |
|                     |              |             | Triennially                      | M, O     |       |
| TW-1                | Regional     | Monitoring  | Annually                         | R, GI    |       |
|                     |              |             | Triennially                      | M, O     |       |
| TW-1A               | Intermediate | Monitoring  | Annually                         | R, GI    |       |
|                     |              |             | Triennially                      | M, O     |       |
| TW-3                | Regional     | Monitoring  | Annually                         | R, GI    |       |
|                     | -            |             | Triennially                      | M, O     |       |
| TW-8                | Regional     | Monitoring  | Annually                         | R, GI    |       |
|                     |              |             | Triennially                      | M, O     |       |

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| Existing Well<br>ID | Well Type | Purpose      | Monitoring/Sampling<br>Frequency | Analyses | Notes        |
|---------------------|-----------|--------------|----------------------------------|----------|--------------|
| PM-1                | Regional  | Water Supply | Annually                         | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |
| PM-2                | Regional  | Water Supply | Annually                         | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |
| PM-3                | Regional  | Water Supply | Annually                         | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |
| PM-4                | Regional  | Water Supply | Annually                         | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |
| PM-5                | Regional  | Water Supply | Annually                         | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |
| 0-1                 | Regional  | Water Supply | Annually                         | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |
| 0-4                 | Regional  | Water Supply | Annuallly                        | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |
| SCO-1               | Alluvial  | Observation  | Annually                         | R, M, GI | Well is dry. |
|                     |           | Server and   | Triennially                      | 0        |              |
| SCO-2               | Alluvial  | Observation  | Annually                         | R, M, GI | Well is dry. |
|                     |           | 19 m m.      | Triennially                      | 0        |              |
| APCO-1              | Alluvial  | Observation  | Annually                         | R, M, GI |              |
|                     |           |              | Triennially                      | 0        |              |

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## Pertinent Existing Wells Within a Three-Mile Radius of Technical Area 36

| Existing Well<br>ID | Well Type | Purpose         | Monitoring/Sampling<br>Frequency | Analyses | Notes        |
|---------------------|-----------|-----------------|----------------------------------|----------|--------------|
| PCO-1               | Alluvial  | Observation     | Annually                         | R, M, GI |              |
|                     |           |                 | Triennially                      | 0        |              |
| PCO-2               | Alluvial  | Observation     | Annually                         | R, M, GI |              |
|                     |           |                 | Triennially                      | 0        |              |
| PCO-3               | Alluvial  | Observation     | Annually                         | R, M, GI |              |
|                     |           |                 | Triennially                      | 0        |              |
| WCO-2               | Alluvial  | Observation     | Annually                         | R, M, GI | Well is dry. |
|                     |           |                 | Triennially                      | 0        |              |
| WCO-3               | Alluvial  | Observation     | Annually                         | R, M, GI | Well is dry. |
|                     |           |                 | Triennially                      | 0        |              |
| CDBM-1              | Alluvial  | Moisture Access | Annually                         | R, M, GI | Well is dry. |
|                     |           |                 | Triennially                      | 0        |              |
| CDBM-2              | Alluvial  | Moisture Access | Annually                         | R, M, GI | Well is dry. |
|                     |           |                 | Triennially                      | 0        |              |

Note: See Figure A-10 in Attachment A for the locations of these wells.

<sup>a</sup> HSWA Module = Hazardous and Solid Waste Amendments Module VIII in the Hazardous Waste Facility Permit for Los Alamos National Laboratory (NM0890010515)

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## SUPPLEMENT H-1

Potential Contaminant Migration Transport Pathways for Surface Water and Groundwater

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## LIST OF ABBREVIATIONS/ACRONYMS

| 2,4-DNT                            | 2,4-dinitrotoluene                                          |
|------------------------------------|-------------------------------------------------------------|
| amsl                               | above mean sea level                                        |
| Ba (NO <sub>3</sub> ) <sub>2</sub> | barium dinitrate                                            |
| EPA                                | U.S. Environmental Protection Agency                        |
| ER                                 | environmental restoration                                   |
| EF                                 | degree(s) Fahrenheit                                        |
| ft                                 | feet                                                        |
| HE                                 | high explosives                                             |
| in.                                | inch(es)                                                    |
| kg                                 | kilogram                                                    |
| LANL                               | Los Alamos National Laboratory                              |
| 20 NMAC 4.1                        | New Mexico Administrative Code, Title 20, Chapter 4, Part 1 |
| µg/g                               | micrograms per gram                                         |
| mi                                 | mile(s)                                                     |
| OB                                 | open burning                                                |
| OD                                 | open detonation                                             |
| PCB                                | polychlorinated biphenyls                                   |
| RCRA                               | Resource Conservation and Recovery Act                      |
| RFI                                | RCRA Facility Investigation                                 |
| SAL                                | screening action level                                      |
| SVOC                               | semivolatile organic compound                               |
| ТА                                 | technical area                                              |
| TCLP                               | Toxicity Characteristic Leaching Procedure                  |
| U                                  | total uranium                                               |
| VOC                                | volatile organic compound                                   |
| yr                                 | year(s)                                                     |

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## 1.0 INTRODUCTION

## 1.1 <u>PURPOSE</u>

This supplement addresses the requirements of the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Part 264, Subpart X, AMiscellaneous Units,≅ revised January 1, 1997 [1-1-97]. The requirements of this subpart apply to owners and operators of facilities that treat, store, or dispose of hazardous waste in miscellaneous units. A model was constructed to simulate the migration of a contaminant that may result from contaminant spills followed by an unusually heavy rainstorm at the open burning (OB)/open detonation (OD) units at Los Alamos National Laboratory (LANL). This model specifically addresses the requirements of Subpart X that deal with potential contaminant migration transport pathways.

Table H-1-1 is a cross-reference guide, listing the requirements of Subpart X and the section where each requirement is addressed, either in the main body of the Part B permit application, or in this supplement.

## 1.2 <u>SCOPE</u>

Subpart X of 20 NMAC 4.1, Subpart V, Part 264 [1-1-97], requires permit applicants to show that they prevent any releases that may have adverse effects on human health or the environment due to migration of waste constituents in the groundwater, surface water, soil, or subsurface environment.

This supplement evaluates possible waterborne waste transport pathways and their potential for contaminant migration by use of a simple model. The supplement lists the possible contaminants of concern and shows their origin and nature. It presents scenarios for possible waterborne migration based on site geology, hydrology, and meteorology.

The model simulates the migration of a contaminant that may result from a contaminant spill followed by an unusually heavy rainstorm at two OD units. Contaminant concentrations were then estimated at the point where contaminants mix with runoff from the watershed associated with each OD unit, and where the runoff may reach receptors.

Maximum possible concentrations are estimated for contaminants of concern in the model and compared to LANL screening action levels (SAL).

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## 2.0 SITE SELECTION RATIONALE

The OD units at Technical Area (TA) 39-6 and TA-39-57 were chosen for use in this demonstration because of their locations (see Figure A-2 in Attachment A of the "Part B Permit Application: Technical Area 39 Open Detonation Units" [LANL, 1999]). These sites are in the bottom of a tributary of Ancho Canyon and are in close proximity to intermittent streams. A heavy rainstorm of sufficient volume could possibly transport potential contaminants to the Rio Grande approximately three miles (mi) away. It is expected that runoff at these OD units in the canyon bottom have a greater chance of reaching the Rio Grande than runoff from the sites on the mesa tops. For this model, contaminant concentrations were estimated at each OD unit, at State Road 4, and at the Rio Grande.

### 3.0 SITE CONDITIONS

### 3.1 <u>GEOLOGY</u>

LANL is located on the Pajarito Plateau on the eastern flank of the Jemez Mountains. This area is dominated by volcanic deposits associated with caldera formation and collapse; these deposits form broad plateaus surrounding the Jemez Mountains. The Pajarito Plateau consists of narrow mesas separated by deep canyons formed by southeast-trending intermittent streams. TA-39 is drained by a number of intermittent streams and tributaries of the main stream channel that runs through Ancho Canyon and joins the Rio Grande in White Rock Canyon. All of the canyons through which these tributaries flow contain alluvium of unknown thickness. Other canyons on the plateau with a similar geology and topography (Mortandad, Cañada del Buey, and Pajarito) contain alluvial deposits that vary greatly in thickness, from less than 3 feet (ft) thick to greater than 100 ft thick (Devaurs and Purtymun, 1985).

LANL is perched on a plateau consisting of mostly upper Tshirege and lower Otowi members of the Bandelier Tuff. At TA-39, the Bandelier Tuff ranges in thickness from several ft along the northeastern margin of the site to 600 ft just west of TA-39 in Borehole DT9 (Purtymun, 1984).

## 3.2 <u>HYDROLOGY</u>

Ancho Canyon heads on the Pajarito Plateau on LANL property near the center of the southern LANL boundary and extends across the property to its confluence with the Rio Grande. The total drainage area of this canyon is approximately 7 square mi (LANL, 1993). The main channel length is approximately 6.9 mi long. The floor elevation of the canyon starts at just above 7,100 ft and drops to just below 5,400 ft at its confluence with the Rio Grande.

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Ancho Canyon contains an ephemeral stream that is approximately 0.8 mi upstream from the canyon=s confluence with the Rio Grande and is within LANL boundaries. At this point, perennial flow to the Rio Grande is supported by a perennial spring, known as Ancho Spring. Ancho Canyon has no significant snowmelt runoff (LANL, 1996).

The surface of the main aquifer rises westward from the Rio Grande within the Santa Fe Group into the lower part of the Puye Conglomerate below the central and western part of the plateau. The main aquifer depths below the mesa top range from about 1,200 ft along the western margin of the plateau to about 600 ft at the eastern margin. The main aquifer is separated from the alluvium by 350 to 620 ft of tuff and volcanic sediments. The main aquifer is unconfined in the western part of the plateau and exhibits semiartesian to artesian conditions in the eastern part along the Rio Grande (Purtymun, 1994).

Available hydrologic data indicate that the major recharge area for the main aquifer is west of LANL, presumably in the Jemez Mountains, although this is still being investigated. Water in the main aquifer moves from its major recharge area toward the Rio Grande, where part is discharged into the river through seeps and springs. The hydraulic gradient of the aquifer averages about 60 to 80 ft/mi within the Puye Conglomerate but increases to 80 to 100 ft/mi along the eastern edge of the plateau as the water in the aquifer enters the less permeable sediments of the Santa Fe Group. The rate of water movement in the upper section of the aquifer varies, depending on the aquifer materials. Aquifer tests indicate the movement ranges from 20 ft/year (yr) in the Tesuque Formation to 345 ft/yr in the more permeable Puye Conglomerate (Purtymun, 1984). No supply wells or test wells are located within the boundaries of TA-39 or within 3,500 ft of the OD units at TA-39.

Perched groundwater zones of limited extent are known to occur below canyon alluvium and above the main aquifer in the Guaje Pumice bed at the base of the Bandelier Tuff and in the underlying conglomerates and basalts in parts of Pueblo Canyon, Los Alamos Canyon, and Sandia Canyon. Samples from these zones are routinely collected from two test wells and one spring that discharges from one of the zones (LANL, 1995).

Shallow alluvial groundwater zones are known to exist in Pueblo Canyon, Los Alamos Canyon, Mortandad Canyon, and Pajarito Canyon. Shallow groundwater may exist in parts of Water Canyon, Sandia Canyon, Potrillo Canyon, and Cañon de Valle; however, several boreholes and observation wells have failed to confirm its presence. Alluvium in Ancho Canyon probably contains groundwater

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due to recharge from storm runoff. While the extent of saturation in the alluvium is not known at present, it is probably small and occurs seasonally.

## 3.3 METEOROLOGY

## 3.3.1 <u>Precipitation</u>

Total annual precipitation, which includes rainfall and water-equivalent snowfall, averages approximately 19 inches (in.) at Los Alamos. Annual precipitation declines eastward, with the normal White Rock precipitation at 13.5 in., and increases westward to more than 25 in. in the Jemez Mountains. The higher precipitation toward the mountains is very noticeable during the summer when thundershowers develop over the mountains. Showers tend to form, or be stronger, over the mountains for much of the year. Winter storms associated with upslope winds drop more snow at higher elevations on the plateau.

Los Alamos precipitation is characteristic of a semiarid climate. Variations in precipitation from year to year are quite large. Annual precipitation extremes range from 6.80 to 30.34 in. over a 71-year period. In 1986, 30.01 in. fell at the North Community site, near the Jemez Mountains (LANL, 1994).

## 3.3.2 <u>Temperature</u>

Despite Los Alamos' southern location, temperatures are cool at the 7,400-ft above mean sea level (amsl) elevation. Mean temperatures vary with altitude, averaging 5 degrees Fahrenheit (EF) higher in and near the Rio Grande Valley (6,500 ft amsl) and 5EF to 10EF lower in the nearby Jemez Mountains (8,500-10,000 ft amsl).

Winter temperatures typically range from 15EF to 25EF during the night and from 30EF to 50EF during the day. Cold arctic air masses occasionally invade the Los Alamos area from the north and northeast, but often a shallow layer of coldest air is dammed to the east by the Sangre de Cristo Mountains. Occasionally, Los Alamos temperatures drop to 0EF or below.

Summers have moderately warm days and cool nights. Afternoon temperatures are in the 70s and 80s (EF) and occasionally reach 90EF. The relatively thin air, light winds, clear skies, and dry atmosphere cause nighttime temperatures to drop to the 50s (EF), even after the warmest day (LANL, 1994).

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## 3.4 WATER, SOIL, AND AIR QUALITY

Surface water, groundwater, soil, and sediments are routinely sampled at LANL as part of environmental surveillance and environmental restoration (ER) activities. Data on the concentrations of various chemical constituents of interest in these media are published annually in environmental surveillance reports (e.g., Environmental Surveillance at Los Alamos during 1992 [LANL, 1994]), and at scheduled times in ER Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) reports.

## 4.0 POTENTIAL CONTAMINANTS

LANL's Environmental Protection Group collected surface soil, sediment, and rinsate samples at the TA-39-6 and TA-39-57 OD units for the Corrective Activities Program.

At each site, four transects radiating outward from the center of the detonation areas were sampled. Sampling plans (Fresquez, 1993) indicate that samples were screened for gross alpha, gross beta, and gross gamma. Samples were analyzed for:

- ∃ Toxicity Characteristic Leaching Procedure (TCLP) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)
- ∃ Total beryllium, lead, and mercury
- ∃ Semivolatile organic compounds (SVOC)
- ∃ Volatile organic compounds (VOC)
- ∃ Polychlorinated biphenyls (PCB)
- ∃ Total uranium (U)
- $\exists$  High explosive (HE) residues.

Summary memos (Fresquez, 1994) discuss the analytical results.

At TA-39-57, no metals were detected above U.S. Environmental Protection Agency (EPA) action levels. Five SVOCs were detected in samples; only 2,4-dinitrotoluene (2,4-DNT) was detected above EPA action levels. Four VOCs were detected at parts per billion levels and were below EPA action levels. No PCBs were detected. The average concentration of total U over this site was 134.2 ( $\forall$  243.8) micrograms per gram (µg/g) compared to an upper limit for total U in background samples in the Los Alamos area of 3.4  $\mu$ g/g. Some HE residues were detected within 80 ft of the detonation area.

At TA-39-6 four soil samples exceeded TCLP-lead proposed EPA action levels. All other metals analyzed were below EPA action levels. Four different SVOCs were detected below EPA action levels. Five VOCs were detected at parts per billion levels and were below EPA action levels. One soil sample contained traces of PCBs at 1.1 mg/g. No HE residues were detected. Total U in samples ranged in concentration from 0.833 to 72.3  $\mu$ g/g, with the average concentration over the site being 15.35 ( $\forall$  21)  $\mu$ g/g.

The results of these sampling events give a limited picture of potential contaminants at the sites. Additional sampling is proposed at these sites to meet ER requirements for potential release site characterization. It is proposed that samples be analyzed for a more complete analytical suite, collected at depth as well as at surface levels, and collected at biased locations.

## 5.0 ACTION LEVELS

The ER Project at LANL takes its primary direction from EPA guidance (EPA, 1989). Subsequent guidance, ACorrective Action for Releases from Solid Waste Management Units at Hazardous Waste Management Facilities; Proposed Rule≅ (Subpart S) (EPA, 1990), a proposed regulation under RCRA, presents a methodology for calculating action levels to determine the need for further evaluation of contamination in various environmental media (i.e., groundwater, surface water, air, and soil). The action levels are calculated using chemical-specific toxicity values and default exposure parameters. In order to comply with the LANL Hazardous and Solid Waste Amendments Module (Module VIII, effective May 23, 1990), SALs have been developed that follow the Subpart S methodology for exposure parameter defaults but incorporate more recent toxicity values available from the EPA's Integrated Risk Information System database (EPA, 1993) and Health Effects Assessment Summary Tables (EPA, 1992), which are updated periodically.

In deriving SALs for constituents in water, it is assumed that a 70-kilogram (kg) adult ingests water at a rate of 2 liters per day over a 70-year exposure duration. These SALs apply to constituents in both groundwater and surface water.

SAL derivations are based on assumptions and equations contained in proposed Subpart S. A complete discussion of assumptions and equations is given in the AInstallation Work Plan for Environmental Restoration,≅ Appendix J (LANL, 1993).

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## 6.0 <u>HYPOTHETICAL SCENARIO</u>

The model simulates contaminant migration resulting from a contaminant spill followed by an unusually heavy rainstorm at two OD units. Contaminant concentrations were estimated at the point where contaminants mix with runoff from the watershed associated with each OD unit, and where the runoff may reach receptors.

## 6.1 CONTAMINANTS OF CONCERN FOR SCENARIO

Contaminants of concern for the OD units are those that may potentially migrate from the site in quantities above established SALs. Barium dinitrate and 2,4-DNT were chosen for this scenario. Barium dinitrate is a major compound present in HE before it is flashed, and 2,4-DNT was one of the SVOCs detected above EPA action levels in the Environmental Protection Group=s sampling activities, discussed in Section 4.0.

In the scenario it is assumed that significant quantities of barium dinitrate  $(Ba[NO_3]_2)$  and 2,4-DNT are spilled onto the soil surface. Rainfall in a 2-year 6-hour storm then falls on the spill, completely dissolving the  $Ba(NO_3)_2$  and dissolving the 2,4-DNT to saturation. The water is then assumed to run off the spill area without attenuation of the contaminant concentrations and mix at two points downstream with runoff from the storm over a 24-hour period.

## 6.2 PRECIPITATION EVENT FOR SCENARIO

A 2-year 6-hour precipitation event will drop 0.82 in. of rain at TA-39-6 and 0.98 in. of rain at TA-39-57 (McLin, 1996). Table H-1-2 lists the discharges and the discharge volumes over a 24-hour period at locations downstream entering the main drainage, resulting from the hypothetical 2-year 6-hour precipitation event.

## 6.3 CONCENTRATION CALCULATIONS FOR SCENARIO

For the calculation it is assumed that barium and 2,4-DNT spills at TA-39-6 and at TA-39-57. Each consists of 0.5 kg of barium [as soluble  $Ba(NO_3)_2$ ] plus pieces of 2,4-DNT with a total surface area each of 0.06 square ft. The mass of 2,4-DNT is sufficient to become saturated by rain falling on the surface area of the 2,4-DNT pieces over the entire storm event. The solubility of 2,4-DNT is 240 mg per liter. The solution is then diluted as the runoff moves away from the site and is combined with runoff from larger watersheds. Concentrations calculated at the site, at State Road 4, and at the Rio Grande are shown in Table H-1-3.

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#### 7.0 GROUNDWATER TRANSPORT

The potential for precipitation to carry contaminants from the canyon bottoms downward to groundwater aquifers is low due to the thickness and extreme dryness of the underlying soil and rock. Depth of penetration of the infiltrating waters will depend on the amounts and duration of rainfall and whether the waters intercept a fracture or fault.

Water will be present in the canyon bottom more frequently than during the 2-year 6-hour hypothetical precipitation event. This will dilute the waters that may contribute to groundwater, resulting in significantly lower concentrations. Barium will likely precipitate out of the infiltrating waters primarily as sulfate and build up in the upper soil horizon. 2,4-DNT will chemically precipitate in the soil horizon and will be degraded in a matter of months. While the canyon bottom is the most likely pathway to groundwater aquifers, the concentration of contaminants in these waters will be very low.

Additional sampling will further define constituents of concern and indicate areas where further analysis may be necessary.

## 8.0 <u>CONCLUSIONS</u>

The calculated concentrations are the results of an unlikely scenario where significant quantities of toxic materials remain on the ground after detonation. The concentrations calculated are higher than any values anticipated as a result of inadvertent releases from OD unit operations. Under this scenario, the concentration of only barium among the contaminants of concern are close to the SALs at one of the points calculated. These calculations ignore topography, degradation, and sorption to soils or sediments, as well as physical mass transport of HE solid particles. It was also assumed that momentary contact with rainwater is sufficient to cause full dissolution or chemical saturation. While these calculations are conservative, they do emphasize the importance of carefully evaluating the results of the planned sampling events.

While the concentrations are, in some cases, close to SALs, it should be noted that the SALs represent concentrations assuming that a 70-kg adult ingests water at a rate of 2 liters per day for 70 years. The numbers given were developed for a single precipitation event lasting 6 hours and occurring, on average, once every two years.

This simple analysis provides a conceptual model for evaluating the potential contribution to surface and groundwaters for contaminants that may be present at the sites. More comprehensive modeling

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including the kinetics of dissolution, degradation, sorption to soils, particle transport, bioaccumulation, and groundwater contributions would be necessary to define a more accurate picture.

## 9.0 <u>REFERENCES</u>

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## Table H-1-1

## Subpart X Cross Reference

| Subpart X Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                          | Where Addressed                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>⇒</b> 264.601 Environmental performance standards. A miscellaneous unit must be located, designed, constructed, operated, maintained, and closed in a manner that will ensure protection of human health and the environment. Permits for miscellaneous units are to contain such terms and provisions as necessary to protect human health and the environment, including, but not limited to, as appropriate, design and monitoring requirements, and requirements for responses to releases of hazardous waste or hazardous constituents from the unit. Permit terms and provisions shall include those requirements of Subparts I through O of this Part, Part 270, and part 146 that are appropriate for the miscellaneous unit being permitted. Protection of human health and the environment includes, but is not limited to: |                                                                                                                                                                                                          |                                                                                           |
| (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Prevention of any releases that may have adverse effects on human health or the environment due to migration of waste constituents in the groundwater or subsurface environment, considering:            |                                                                                           |
| (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The volume and physical and chemical characteristics of the waste in the unit, including its potential for migration through soil, liners, or other containing structures;                               | Part B permit app., Section 2.0 and<br>Attachment H; Supplement H-1,<br>Sections 4.0, 6.1 |
| (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The hydrologic and geologic characteristics of the unit and the surrounding area;                                                                                                                        | Part B permit app., Section 2.0 and<br>Attachment H; Supplement H-1,<br>Sections 3.1, 3.2 |
| (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The existing quality of groundwater, including other sources of contamination and their cumulative impact on the groundwater;                                                                            | Part B permit app., Attachment H;<br>Supplement H-1, Section 3.3                          |
| (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The quantity and direction of ground-water flow;                                                                                                                                                         | Supplement H-1, Section 3.2                                                               |
| (5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The proximity to and withdrawal rates of current and potential groundwater users;                                                                                                                        | Part B permit app., Attachment H                                                          |
| (6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The patterns of land use in the region;                                                                                                                                                                  | Part B permit app., Attachment A                                                          |
| (7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The potential for deposition or migration of waste constituents into subsurface physical structures,<br>and into the root zone of food-chain crops and other vegetation;                                 | To be addressed during ER Project<br>characterizations for OU 1130                        |
| (8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The potential for health risks caused by human exposure to waste constituents;                                                                                                                           | To be addressed during ER Project<br>characterizations for OU 1130                        |
| (9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures<br>caused by exposure to waste constituents;                                                          | To be addressed during ER Project<br>characterizations for OU 1130                        |
| (b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (b) Prevention of any releases that may have adverse effects on human health or the environment due to migration of waste constituents in surface water, or wetlands or on the soil surface considering: |                                                                                           |
| (1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The volume and physical and chemical characteristics of the waste in the unit;                                                                                                                           | Part B permit app., Section 2.0                                                           |
| (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The effectiveness and reliability of containing, confining, and collecting systems and structures in<br>preventing migration;                                                                            | Part B permit app., Section 2.0                                                           |
| (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The hydrologic characteristics of the unit and the surrounding area, including the topography of the<br>land around the unit;                                                                            | Part B permit app., Section 2.0 and<br>Attachment H; Supplement H-1,<br>Section 3.1, 3.2  |
| (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The patterns of precipitation in the region;                                                                                                                                                             | Supplement H-1, Section 3.3.1                                                             |
| (5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The quantity, quality, and direction of ground-water flow;                                                                                                                                               | Supplement H-1, Section 3.2                                                               |
| (6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The proximity of the unit to surface waters;                                                                                                                                                             | Part B permit app., Section<br>2.0;Supplement H-1, Section 2.0,<br>3.2                    |
| (7)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The current and potential uses of nearby surface waters and any water quality standards established for those surface waters;                                                                            | Supplement H-1, Section 3.4                                                               |
| (8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The existing quality of surface waters and surface soils, including other sources of contamination and their cumulative impact on surface waters and surface soils;                                      | Supplement H-1, Section 3.4                                                               |
| (9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The patterns of land use in the region                                                                                                                                                                   | Part B permit app., Attachment A                                                          |
## Table H-1-1

## Subpart X Cross Reference (Continued)

|                                       | Subpart X Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Where Addressed                                                 |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| (10)                                  | The potential for health risks caused by human exposure to waste constituents;                                                                                                                                                                                                                                                                                                                                                                                                                                         | To be addressed during ER Project characterizations for OU 1130 |
| (11)                                  | The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents.                                                                                                                                                                                                                                                                                                                                                                           | To be addressed during ER Project characterizations for OU 1130 |
| (c)                                   | Prevention of any releases that may have adverse effects on human health or the environment due to migration of waste constituents in the air, considering:                                                                                                                                                                                                                                                                                                                                                            |                                                                 |
| (1)                                   | The volume and physical and chemical characteristics of the waste in the unit, including its potential for the emission and dispersal of gases, aerosols and particulates;                                                                                                                                                                                                                                                                                                                                             | Part B permit app., Section 2.0                                 |
| (2)                                   | The effectiveness and reliability of systems and structures to reduce or prevent emissions of hazardous constituents to the air;                                                                                                                                                                                                                                                                                                                                                                                       | Part B permit app., Attachment H,<br>Supplement H-6             |
| (3)                                   | The operating characteristics of the unit;                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Part B permit app., Section 2.0                                 |
| (4)                                   | The atmospheric, meteorologic, and topographic characteristics of the unit and the surrounding area;                                                                                                                                                                                                                                                                                                                                                                                                                   | Supplement H-1, Section 3.0                                     |
| (5)                                   | The existing quality of the air, including other sources of contamination and their cumulative impact on the air;                                                                                                                                                                                                                                                                                                                                                                                                      | Part B permit app., Attachment H                                |
| (6)                                   | The potential for health risks caused by human exposure to waste constituents;                                                                                                                                                                                                                                                                                                                                                                                                                                         | Part B permit app., Attachment J                                |
| (7)                                   | The potential for damage to domestic animals, wildlife, crops, vegetation, and physical structures caused by exposure to waste constituents.                                                                                                                                                                                                                                                                                                                                                                           | Part B permit app., Attachment J                                |
| → 26<br>testi<br>com<br>addi          | <b>4.602 Monitoring, analysis, inspection, response, reporting, and corrective action.</b> Monitoring, ng, analytical data, inspections, response, and reporting procedures and frequencies must ensure pliance with <i>y</i> =264.601, 264.15, 264.33, 264.75, 264.76, 264.77, and 264.101 as well as meet any tional requirements needed to protect human health and the environment as specified in the permit.                                                                                                     | Part B permit app., Various sections and attachments            |
| ⇒ 26<br>that<br>has<br>close<br>close | <b>4.603 Post-closure care.</b> A miscellaneous unit that is a disposal unit must be maintained in a manner complies with 3264.601 during the post-closure care period. In addition, if a treatment or storage unit contaminated soils or groundwater that cannot be completely removed or decontaminated during ure, then that unit must also meet the requirements of 3264.601 during post-closure care. The post-ure plan under 3264.118 must specify the procedures that will be used to satisfy this requirement. | NA                                                              |

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### Table H-1-2

## Peak Discharges and Discharge Volumes From a 2-year 6-hour Precipitation Event

| Cross Section      | Peak Discharge<br>(cubic feet per<br>second) | 24-Hour Discharge<br>Volume (acre-feet) | 24-Hour Discharge<br>Volume (Liters) |
|--------------------|----------------------------------------------|-----------------------------------------|--------------------------------------|
| FS <sup>a</sup> -6 | 1                                            | 0.20                                    | 246,723                              |
| FS-57              | 3                                            | 0.50                                    | 616,809                              |
| State Road 4       | 3                                            | 0.99                                    | 1,221,283                            |
| Rio Grande         | 1                                            | 0.50                                    | 616,809                              |

<sup>a</sup> FS = Firing Site

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## Table H-1-3

# Concentrations Calculated at Open Detonation Units Technical Area (TA)-39-6 and TA-39-57

| Contaminant        | TA-39-6<br>Discharge<br>Point | TA-39-6<br>Concentration at<br>Discharge Point | TA-39-57<br>Discharge<br>Point | TA-39-57<br>Concentration at<br>Discharge Point | SAL     |
|--------------------|-------------------------------|------------------------------------------------|--------------------------------|-------------------------------------------------|---------|
|                    | FS-6                          | 2.0 mg/l                                       | FS-57                          | 0.8 mg/l                                        |         |
|                    | State Road 4                  | 0.34 mg/l                                      | State Road 4                   | 0.27 mg/l                                       |         |
| Barium             | Rio Grande                    | 0.24 mg/l                                      | Rio Grande                     | 0.20 mg/l                                       | 2 mg/l  |
|                    | FS-6                          | 0.113 μg/l                                     | FS-57                          | 5.4x10 <sup>-2</sup> μg/l                       |         |
|                    | State Road 4                  | 0.019 μg/l                                     | State Road 4                   | 1.8x10 <sup>-2</sup> μg/l                       |         |
| 2,4-dinitrotoluene | Rio Grande                    | 0.013 μg/l                                     | Rio Grande                     | 1.4x10 <sup>-2</sup> μg/l                       | 73 μg/l |

Footnotes: SAL = FS = μg = mg = I =

screening action levels Firing Site micrograms milligrams liter

H-1-14

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## **SUPPLEMENT H-2**

The New Mexico Environment Department=s August 17, 1995, Letter to the Department of Energy Los Alamos Area Office Regarding Comments Concerning Groundwater Contamination and Protection at Los Alamos National Laboratory (LANL), Los Alamos, New Mexico



GARY E. JOHNSON GOVERNOR State of New Mexico ENVIRONMENT DEPARTMENT Harold Runnels Building 190 St. Francis Drive. P.O. Box 26110 Santa Fe. New Mexico 87502 (505-327-2850

MARK E. WEIDLER SECRETARY

EDGAR T. THORNTON III DEPUTY SECRETARY

17 August 1995

<u>\_</u>

Mr. Larry Kirkman Acting Area Manager Department of Energy Los Alamos Area Office 528 35th Street, Mail Stop A316 Los Alamos, NM 87544

## RE: Comments Concerning Ground-water Contamination and Protection at Los Alamos National Laboratory(LANL), Los Alamos, New Mexico

Dear Mr. Kirkman:

The New Mexico Environment Department (NMED), Department of Energy Oversight Bureau(DOE OB) and Hazardous and Radioactive Material Bureau(HRMB) staff have assessed LANL's ground-water protection program, and have concluded that several problems concerning ground-water contamination and protection exist. The following summarizes major concerns of the NMED in relation to ground-water protection at LANL:

- From 1989 to 1993, water at approximately 271 ground-water monitoring stations(wells) exceeded Department of Energy, Environmental Protection Agency, New Mexico State drinking water standards or maximum contaminant levels, and NMED Water Quality Control Commission (WQCC) standards.
- O Results of historical tritium concentration trend analyses, performed for seven LANL regional aquifer monitoring wells indicate that past laboratory releases of tritiumcontaminated water may have commingled with the regional aquifer.
- O LANL'S Environmental Surveillance group recently released preliminary data which indicate that the regional active near production well 0-4 contains strontium-90 at leased

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four(4) times the New Mexico State drinking water standard and NMED WQCC standard.

- O Both LANL and NMED DOE OB analytical data obtained from onsite and off-site springs are showing elevated concentrations of chlorinated solvents, high explosives, nitrates/nitrites as nitrogen and radionuclides.
- O Preliminary modeling of the water balance in Mortandad Canyon by NMED suggests radionuclide-bearing effluent from LANL's liquid radioactive waste treatment facility(Tech Area 50) can leak out of the shallow(alluvium) aquifer and thus percolate towards the regional aquifer.

The above conditions warrant NMED's previous recommendations to develop a site-wide ground-water monitoring system to ascertain the impacts of laboratory operations to the groundwater regime. Currently, the impact to human health and the environment is unknown. A plan is required to determine adequately the effect past, current, and future laboratory operations have on the ground-water regime. The inadequacy of LANL's current ground-water monitoring system, the lack of basic hydrologic information, and the lack of compliance with both HSWA and RCRA ground-water monitoring requirements have previously been conveyed by NMED through memoranda, presentations, and letters. (c.f. NMED internal letter, August 26, 1992; NMED letter to Jerry Bellows, November 25, 1992; NMED Initial Ground-Water Assessment Report, December 1992; NMED internal memo, February 5, 1993; NMED presentation at San Ildefonso, February 16, 1993; NMED/LANL meeting February 19, 1993; NMED letter to Diana Webb, March 10, 1993; NMED letter to Diana Webb, July 1, 1993; NMED letter to distribution, August 6, 1993; NMED memo to EPA, August 5, 1993; NMED internal memo, November 23, 1993; NMED letter to Diana Webb, February 28, 1994; NMED internal memo, February 22, 1994; NMED internal presentations, May 13, 1994; NMED letter to Joseph Vozella, July 7, 1994; NMED letter to EPA, January 23, 1995; NMED letter to EPA, January 24, 1995; NMED/DOB meeting, April 13, 1995; NMED letter to Larry Kirkman, May 30, 1995; NMED internal memo, July 5, 1995).

Basic geology, hydrogeology, and pathways for contaminant transport have not been adequately addressed to date. At present, the following fundamental hydrogeologic issues/questio. remain unresolved at LANL. Page 3 NMED Ground-Water Concerns 17 August 1995

- Individual zones of saturation beneath LANL have not been adequately delineated, and the "hydraulic interconnection" between these is not understood. A facility-wide description of the hydrogeologic characteristics affecting ground-water flow beneath the facility cannot be made without adequate delineation of the perched-intermediate aquifer(s) beneath LANL.
- o The recharge area(s) for the main and perched-intermediate aquifers have not been identified. It is unknown at this time if any significant quantity of water is recharging the main aquifer through fracture-fault zones which occur on the Pajarito Plateau. Characterization of these site-wide fault zones as potential pathways for aqueous migration is not complete. It is unknown what effect, if any, these zones may have on the direction of ground-water flow and hydraulic gradient of the main and perched-intermediate aquifers.
- o The ground-water flow direction(s) of the main aquifer and perched-intermediate aquifer(s), as influenced by pumping of production wells are unknown.
- Aquifer characteristics cannot be determined without additional monitoring wells installed within specific intervals of the various aquifers beneath the facility. Locations of wells designed for aquifer testing cannot be addressed adequately without the delineation of individual zones of saturation beneath LANL.

At present, it appears that several different organizations(i.e., Environmental Restoration, Environmental Surveillance and Earth and Environmental Science divisions) at LANL are performing activities related to ground-water protection, monitoring and characterization. NHED does not consider that LANL's individual programs are adequately addressing the necessary requirements for a comprehensive ground-water protection program.

The hydrogeologic projects underway lack the integration necessary to meet the specific requirements of the HSWA permit and to address the fundamental hydrogeologic issues mentioned above. The lack of knowledge surrounding these fundamental hydrogeologic issues does not allow for compliance with the regulatory requirements of a site-wide characterization. Page 4 NMED Ground-Water Concerns 17 August 1995

NMED is currently evaluating what work needs to be conducted and to what level of detail to assure compliance with both the HSWA hydrogeologic permit requirements and the requirements for ground-water monitoring of RCRA regulated units. This evaluation should be completed in October, 1995, and provided to EPA and then available to LANL.

During the course of NMED's investigation for the RCRA hydrogeologic evaluation, it has become evident to NMED that a RCRA site-wide hydrogeologic workplan should be developed and submitted to NMED and EPA for review and approval. A site-wide hydrogeologic workplan developed under the driver of RCRA will provide a mechanism to assure a compliance schedule with specific tasks to meet the permit objectives. The workplan should address both the HSWA hydrogeologic permit requirements and RCRA regulatory ground-water monitoring requirements.

Thank you for your attention in this matter. Should you have any questions concerning either technical or regulatory issues please contact Ms. Teri Davis of HRMB at (505) 827-1560. If you have any questions concerning technical matters please contact Mr. Michael Dale of DOE OB at (505) 672-0449.

Sincerely,

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Ed Kelley PhD, Director, Water and Waste Management Division New Mexico Environment Department

Theodore Taylor, DOE LAAO, AAMEP, MS A316 cc: Joseph Vozella, DOE LAAO, MS A316 Ivan Trujillo, DOE LAAO, MS A316 Matt Johansen, DOE LAAO, MS A316 Ken Zamora, Scientech/LAAO, MS A316 Barbara Driscoll, EPA Region 6 Gilbert Sanchez, San Ildefonso Pueblo, Environmental Director Mark Weidler, MMED, Secretary Peter Maggicre, NMTD, Environmental Protection Division Neil Weber, NMED, Chief, DOE Oversight Bureau Benito Garcia, NMED, Chief, HRMB Jim Piatt, NMED, Chief, SWQB Marcy Leavitt, NMED, Chief, GWPRS Sig Hecker, LANL, Laboratory Director. MS Al00 Tom Baca, LNL, EM. MS J591 Jorg Jansen, LANL, EM/ER, MS M992 Steve Rae, LINL, ESH-18, MS K490

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## **SUPPLEMENT H-3**

Measures Implemented to Comply with the National Pollutant Discharge Elimination System Multi-Sector General Permit

 Document:
 LANL TA-36 Part B

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## Measures Implemented to Comply with the National Pollutant Discharge Elimination System Multi-Sector General Permit

Identify members of a Pollution Prevention Team to develop the Storm Water Pollution Prevention (SWPP) Plan and assist in the implementation, maintenance, and revision of the plan.

Provide a description of the potential pollutant sources exposed to storm water, including pollutant sources not associated with waste treatment.

Prepare a drainage map indicating an outline of the drainage area of each storm water outfall. The map includes structural control measures, if any, to reduce pollutant migration; surface water bodies; material storage areas; and other pollutant sources.

Maintain a current inventory of materials exposed to storm water, including a narrative description of materials handled, treated, stored, and disposed of since 1989.

Maintain a description of spills or leaks since 1989 and the actions taken to prevent a recurrence.

Maintain a summary of any surface water sampling data from the site, if any.

Prepare a narrative description of the potential pollutant sources associated with loading and unloading operations, outdoor storage, outdoor manufacturing or processing, dust and particulate generating activities, and on-site waste disposal activities.

Prepare a description of the measures and controls implemented to control and reduce the amount of pollutants in the storm water discharges. These measures and controls include:

- ∃ Good housekeeping
- B Preventive maintenance program for storm water management devices
- ∃ Spill prevention and response procedures
- ∃ Inspections

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- ∃ Employee training
- ∃ Recordkeeping and internal reporting procedures
- ∃ A listing of non-storm-water discharges, sediment and erosion control, and the management of runoff.

Prepare a self-conducted comprehensive site compliance evaluation to determine compliance with the site-specific SWPP Plan.

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## **SUPPLEMENT H-4**

Results Summary of the Soil Sampling Survey Conducted over Active Firing Site at Technical Area 36, Building 8

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## Results Summary of the Soil Sampling Survey Conducted over Active Firing Site at Technical Area 36, Building 8

In August and September of 1992, 24 soil samples were collected from both portions of the TA-36 open detonation area at the 0- to 3-inch depth along four directions at various distances away from the center of each portion. A sediment sample was collected from each drainage channel located near and downgradient from both portions of the detonation area. A sample was collected from rinsate of the scattered surface debris from around both portions of the detonation area. The soil and sediment samples were screened for gross alpha, beta, and gamma radioactivity. The soil, sediment, and rinsate samples were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals; total metals (aluminum, barium, beryllium, copper, iron, and lead); semivolatile organic compounds (SVOC); total uranium; and high explosive (HE) residues. The results are listed below.

- One soil sample contained TCLP lead above the U.S. Environmental Protection Agency (EPA) proposed action level of 5 parts per million (ppm). No other TCLP metals were detected above regulatory levels in the soil, sediment, or rinsate samples.
- Five SVOCs were detected at seven soil sample locations and at one sediment sample location, but these SVOCs are considered complex compounds derived from plastics.
- HE residues were detected in many of the soil samples and in one sediment sample. No HE was detected in the rinsate sample.

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## SUPPLEMENT H-5

Correction of Data for the Soil Sampling Survey Conducted over Active Firing Site at Technical Area 36, Building 8 REPORT NUMBER: 20618

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|                           | EN-9 ANALYTICAL REPORT                    |                |
|---------------------------|-------------------------------------------|----------------|
|                           |                                           |                |
|                           | Precared by: D GERTH on 20-Sec-1993       |                |
| REQUEST NUMBER: '3501     | MATRIX: SE ANALYST: MET PROG              | RAN CODE: 4106 |
| CUNER: Philip R. Fresquez | GROUP: EN-8 HAIL-STCP: K490 PHONE: 7-0815 |                |
| NOTEBOCK: R8149 PAGE:     | 132                                       |                |

| CUSTONER SAMPLE | 15:         |                  |            |                 |             | RULI  | ) ·             |                 |
|-----------------|-------------|------------------|------------|-----------------|-------------|-------|-----------------|-----------------|
| CUSTOMER        | SAMPLE      |                  | ANALYTICAL | ANALYTICAL      | ANALYTICS   | . 1   |                 |                 |
| NUM             | NUM         | ANALYSIS         | TECHNIQUE  | RESULT          | UNCERTAINTY | UNITS |                 | N<br>Commeny    |
| PF-368-W-20     | 92.27444    | AG               | ICPES      | < 0.01          |             |       |                 |                 |
| 2F-368-w-20     | 92.27444    | 8A               | ICPER      | × 0.01          |             | ₩G/L  | 5/16/93         | 05261H          |
| PF-368-W-20     | 92.27444    |                  | 10725      | 0.07/           | 0.2         | HG/L  | 6/16/93         | 05261H          |
| PF-368-W-20     | 92.27444    | CR               | ICPES      |                 | 0.003       | MG/L  | 6/16/93         | 0 <b>5261H</b>  |
| PF-368-W-20     | 92.27444    | 28               | 10998      |                 |             | MG/L  | 6/16/93         | 0 <b>5261H</b>  |
| PF-368-4-40     | 92.27445    | AG               | ICPES      | 0.03<br>< 0.01  | 0.02        | HG/L  | 6/16/93         | 0 <b>5261</b> H |
| PF-368-4-40     | 92.27445    | 8A .             | ICPES      | 7               |             | MG/L  | 6/16/93         | 052618          |
| PF-368-W-40     | 92.27445    | 0                | ICPES      | 0.077           | 0.3         | MG/L  | 6/16/93         | 052618          |
| PF-368-4-40     | 92.27445    | CR               | (CPEC      | 0.073           | 0.007       | MG/L  | 6/16/93         | 05261H          |
| PF-368-W-40     | 92.27445    | PE               | : CPNC     |                 |             | MG/L  | 6/16/93         | 052618          |
| PF-368-4-60     | 92.27446    | AG               | TCRES      | 0.1             | 0.03        | MG/L  | 6/16/93         | 05261H          |
| 2F-368-W-60     | 92.27446    | 14               | 10755      | < U.UI          |             | HG/L  | 6/16/93         | G5261H          |
| PF-368-4-60     | 92.27646    | <b>CD</b>        | 10723      | 1.3             | 0.2         | HG/L  | 6/16/93         | 05261#          |
| PF-368-W-60     | 92.27644    |                  | 10928      | 0.006           | 0.002       | HG/L  | 6/16/93         | C5261H          |
| PF-368-4-60     | 92.27444    | **<br>D <b>e</b> | I CPES     | < 0.004         |             | MG/L  | 6/1 <b>6/93</b> | 0 <b>5261</b> H |
| PF-368-W-100    | 92.27447    |                  | 10000      | < 0.03          |             | HG/L  | 6/16/93         | 052618          |
| PF-368-W-100    | 92.27447    | 24               |            | < 0.01          |             | MG/L  | 6/16/93         | 052618          |
| PF-368-W-100    | 97 27447 (  |                  | ICPES      | <b>6.</b>       | 0.4         | MG/L  | 6/16/93         | 052618          |
| PF-368-W-100    | 92 27447    | ~                |            | 0.13            | 0.01        | MG/L  | 6/16/93         | 052618          |
| 2F-368-H-100    | 97 27447 8  |                  | LOPES      | < 0.004         |             | MG/L  | 6/16/93         | 052618          |
| PF-368-4-150    | 97 27448 4  |                  |            | 0.11            | 0.01        | MG/L  | 6/16/93         | 05261H          |
| 26-348-0-150    |             |                  | LEPES      | < 0.01          |             | HG/L  | 6/16/93         | 052618          |
| 25-348-0-150    | 75.6/448    |                  | ICPES      | 2.5             | 0.3         | MG/L  | 6/1 <b>6/93</b> | 05261H          |
| PF-368-W-150    | 76.6/448 (  | 2                | ICPES      | < 0.003         |             | MG/L  | 6/16/93         | 052618          |
| 25-360-W-130    | 76.2/448 (  | R .              | CPES       | 0.005           | 0.002       | MG/L  | 6/16/93         | 052618          |
| PF-308-W-130    | 76.2/445 P  |                  | ICPWS      | < 0.03          |             | MG/L  | 6/16/93         | 052618          |
| PP-308-8-20     | 72.2/449 A  | G                | ICPES      | < 0.01          |             | MG/L  | 6/17/93         | 052618          |
| PP-308-2-20     | 92.27649 L  | A                | ICPES      | 1.5             | 0.2         | MG/L  | 6/17/93         | 052618          |
| PP-308-2-20     | 92.27449 C  | 3                | ICPES      | 0.028           | 0.003       | MG/L  | 6/17/93         | 05261N          |
|                 | 92.27449 C  | R                | ICPES      | < 0.304         |             | HG/L  | 6/17/93         | 05261#          |
| PF-368-E-20     | 92.27449 P  | t                | : CPMS     | 0.07            | 0.02        | HG/L  | 6/17/93         | 052618          |
| PF-368-E-40     | 92.27450 A  | G                | ICPES      | 0.013           | 0.001       | HG/L  | 6/17/93         | 05261#          |
| PF-368-E-40     | 72.27450 8  | A                | ICPES      | J. 22           | 0.02        | MG/L  | 6/17/93         | 052618          |
| PF-368-E-40 (   | 72.27450 C  | כ                | ICPES      | < 0.00 <b>3</b> |             | HG/L  | 6/17/93         | 052618          |
| PF-368-E-60     | 72.27450 CI | R                | [CPES      | < 3.304         |             | MG/L  | 6/17/93         | 052618          |
| PF-368-E-40 9   | 72.27450 P  |                  | ( CPHS     | < 0.0 <b>3</b>  |             | HG/L  | 6/17/93         | 052618          |
| PF-368-6-60 \$  | PZ.27451 A  | :                | ICPES      | 0.018           | 0.002       | MG/L  | 6/17/93         | 052618          |
| PF-368-E-50 9   | 2.27451 8/  | <b>A</b>         | CPES       |                 | n <b>र</b>  | MC /1 | A /17/01        | A89414          |

REPORT NUMBER: 20618 (continued)

|                           | EN-9 QUALITY AS       | SURANCE REPORT               |                    |
|---------------------------|-----------------------|------------------------------|--------------------|
|                           | Prepared by: 0 SERTH  | on 20-Sep-1993               |                    |
| REQUEST NUMBER: 13501     | MATRIX: SE ANALYST: M | 4E T                         | PROGRAM CODE: 4106 |
| CWNER: Philip R. Fresquez | GROUP: EN-6 MA        | NIL-STOP: K490 PHONE: 7-0815 |                    |
| NOTEBOCK: R8149 PAGE:     | 132                   |                              |                    |

## SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) OC SAMPLES RUN WITH THIS BATCH

| SAMPLE   |            | ANALYTICAL | ANALYTICAL  |       | ec    | <b></b>      |         |               |
|----------|------------|------------|-------------|-------|-------|--------------|---------|---------------|
| NUN      | ANALYSIS   | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY  | DATE    | COMMENT       |
| 0.27503  | AG         | 2.2        | 0.2         | MG/L  | 2.    | 0.0 <b>8</b> | 6/18/GT | UNDER CONTROL |
| 00.27503 | 5A         | 9.8        | 1.          | MG/L  | 10.   | 0.60         | 6/18/08 | UNDER CONTROL |
| 00.27503 | 8          | 10.        | 1.          | MG/L  | 10.   | 0.4          | 6/10/93 |               |
| 00.27503 | CR         | 9.5        | 1.          | NG/L  | 10    | 0.4          | 0/10/93 | UNDER CONTROL |
| 00.27503 | P <b>B</b> | 10         | •           |       | ,     | 0.0          | 0/18/93 | UNDER CONTROL |
|          |            |            | 1.          |       | 10.   | 0.4          | 6/18/93 | UNDER CONTROL |

## SUMMARY OF CONTROL STATUS OF BLIND OC SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

\_\_\_\_\_Only qualitative data requested

\_\_\_\_ Only Cosh (non-blind) GC samples run with this sample batch.

No GC samples run with this sample betch.

No GC samples for this constituent and matrix type available within EN-9

REPORT NUMBER: 20618

<u>Analysz</u> <u>Alagyaz</u> <u>Alagyaz Alagyaz Alagyaz <u>Alagyaz</u> <u>Alagyaz</u> <u>Alagyaz Alagyaz Alag</u></u>

| 2F- 68 E-60 92.27451 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | : C7E5 | 2.357          |                  |        |                 |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------|------------------|--------|-----------------|-----------------|
| 2#- 68 E-50 92.27451 CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CRES   | 1.227          | 2.50             | 4G/L   | 5/17/9          | 3 052614        |
| PF-368-E-60 92.27451 PB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CPHS   | 1.20           | لان ۲۰ د<br>۱۰ م | HG/L   | 5/17/9          | 3 05261ж        |
| PF-368-E-100 92.27452 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 17755  |                | 1.03             | MG/L   | 5/17/9          | 3 05261н        |
| PF-368-E-100 92.27452 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10755  | TL.C           |                  | MG/L   | 5/17/9          | 3 05261H        |
| PF-368-E-100 92.27652 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | 4.l            | 3.4              | HG/L   | 6/17/9          | 5 05261H        |
| 28-368-E-100 97.27452 CP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ILPES  | 3.332          | 0.003            | MG/L   | 6/17/93         | 057618          |
| 2F-368-E-100 97 27452 Ba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ILPES  | < 0.004        |                  | MG/L   | 6/17/91         | 052414          |
| PF-368-E-150 92 27453 AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | : 5285 | J.26           | 0.03             | ₩G/L   | 5/17/91         |                 |
| PF-368-E-150 92 27453 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CPES   | < 0.01         |                  | 4G/L   | 6/17/91         | 052414          |
| PF-368-E-150 92,27453 cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | 0.94           | 0.09             | MG/L   | 5/17/93         | 052414          |
| PF-368-E-150 92.27453 CB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LIPES  | < 0.003        |                  | HG/L   | 5/17/93         | 357414          |
| PF-368-E-150 92,27453 DB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | < 0.004        |                  | MG/L   | 5/17/93         | 057414          |
| PF-368-H-20 97 27656 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I CPHS | < 0.03         |                  | MG/L   | 6/17/93         | 052614          |
| 28-368-W-20 92 27656 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | 0.012          | 0.003            | MG/L   | 6/17/93         | 052614          |
| PF-368-H-20 92 27/54 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CPES   | 2.2            | 0.2              | HG/L   | 6/17/93         | 052414          |
| 26-348-N-30 03 37/8/ 05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | [CPES  | 3.041          | 0.004            | HG/L   | 6/17/93         | 053614          |
| 26-348-N-20 07 77/8/ AB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | < 0.004        |                  | HG/L   | 6/17/93         | 052414          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I CPWS | 0.49           | 0.05             | MG/L   | 6/17/93         | 032018          |
| 26-148-M-(0, 02, 27433 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ICPES  | < 0.01         |                  | MG/L   | 6/17/93         | 052614          |
| 27-368-R-60 92.27455 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | 7.             | 0.7              | HG/L   | 6/17/98         | 052618          |
| 92.27655 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | I CPES | 0.032          | 0.003            | MG/L   | 6/17/93         | 03281N          |
| PF-308-4-40 92.27455 CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I CPES | < 0.004        |                  | NG/L . | 6/17/93         | U3201N          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ICPHS  | 0.03           | 0.02             | HG/L   | 6/17/07         | USZOTN          |
| PF-368-N-60 92.27456 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | < 0.01         |                  | HG/L   | 6/17/07         | 47201N          |
| PF-366-N-60 92.27456 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | 1.8            | 0.2              | HGZL   | 6/17/93         | U3281N          |
| PF-368-N-60 92.27456 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | 0.007          | 0.003            | NG/L   | 6/17/93         | U3201N          |
| PF-368-N-60 92.27456 CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | 0.006          | 0.003            | MG/L   | 6/17/93         | 03291N          |
| PF-368-N-60 92.27456 PB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I CPHS | < 0.03         |                  | HG/1   | 6/17/93         | W7201N          |
| PF-368-W-100 92.27657 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I CPES | < 0.01         |                  | MC/1   | 6/17/93         | U3261H          |
| PF-368-N-100 92.27457 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | 6.5            | 9.7              | MG/1   | 6/17/93         | U3201H          |
| PF-368-N-100 92.27457 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | 0.34           | 0.03             |        | 6/1// <b>93</b> | N16260          |
| PF-368-N-100 92.27457 CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | 0.011          | 0.004            | MC /1  | 6/17/93         | 052618          |
| PF-368-N-100 92.27457 PB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I CPWS | 3.03           |                  |        | 6/17/93         | 05261H          |
| PF-368-N-150 92.27458 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | [CPES  | 0.01           |                  | MR/I   | 6/1// <b>93</b> | 05261N          |
| PF-368-N-150 92.27458 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CPES   | 3.6            | 0.4              | 1147 S | 6/1//93         | 052618          |
| PF-368-N-150 92.27458 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | 0.034          | 0.003            |        | 6/1//93         | 052618          |
| PF-368-N-150 92.27458 CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | < 0.004        |                  |        | 6/17/93         | 052618          |
| PF-368-N-150 92.27458 PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I CPWS | < 0.03         |                  |        | 6/17/93         | 052618          |
| PF-368-5-20 92.27459 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | < 0.01         |                  | MG/L   | 6/17/93         | 0 <b>5261</b> N |
| PF-368-8-20 92.27459 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | 0.58           | 0.04             |        | 6/17/93         | 052618          |
| PF-368-5-20 92.27459 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | < 0.00%        | 0.00             |        | 6/17/93         | 05261N          |
| PF-368-5-20 92.27459 CR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPER  | 0.013          |                  |        | 6/17/93         | 05261N          |
| PF-368-5-20 92.27659 PB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | < 0.012        | 0.001            |        | 6/17/93         | 05261N          |
| PF-368-5-40 92.27460 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | < 0.03         |                  | MG/L   | 6/17/ <b>93</b> | 052618          |
| PF-368-5-40 92.27440 BA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICHER  | 2.01           |                  | MG/L   | 6/17/93         | 05261N          |
| PF-368-5-40 92.27640 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10000  | 6.7            | 0.3              | HG/L   | 6/17/93         | 05261H          |
| PF-368-5-40 92.27640 CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10728  | 0.019          | 0.002            | HG/L   | 6/17/93         | 05261H          |
| PF-368-5-40 92.27640 PR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10163  | 0.011          | 0.001            | HG/L   | 6/17/93         | 05261N          |
| PF-368-5-60 92.27641 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10000  | < 0.03         |                  | HG/L   | 6/17/93         | 0 <b>526</b> 1H |
| PF-368-5-60 97.27641 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10723  | < 0.01         |                  | HG/L   | 6/17/93         | 05261N          |
| PF-368-9-60 07 27/41 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14783  | 3.1            | 0.3              | MG/L   | 6/17/93         | 052611          |
| PF-368-9-60 02 27/44 cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LUPES  | 0.023          | 0.005            | HE/L   | 6/17/93         | 052618          |
| PF-368-8-60 07 27/44 nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ICPES  | 0.008          | 0.001            | MG/L   | 6/17/93         | 05261N          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | < 0.0 <b>3</b> |                  | MG/L   | 6/17/93         | 05 <b>26</b> 1N |
| PF-300-3-100 YC.2/662 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | < 0.01         |                  | MG/L   | 6/17/93         | 05261N          |
| A 200 - 5- 100 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 200 - 5- 2 | I CPES | 2.3            | 0.2              | MG/L   | 6/17/93         | 05261N          |
| 77-368-3-100 97.27662 CD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I CPES | 0.304          | 0.0 <b>02</b>    | MG/L   | 6/17/93         | 05261N          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ICPES  | 0.013          | 0.0 <b>01</b>    | MG/L   | 6/17/93         | 5261H           |
| PF-368-5-100 92.27462 P8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I CPWS | < 0.0 <b>3</b> |                  | HG/L   | 6/17/93         | 5261H           |
| PF-368-5-150 92.27463 AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | < 0.01         |                  | MG/L   | 6/17/93         | 5261H           |
| 9F-368-5-150 92.27463 SA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ICPES  | 1.5            | 0.2              | HG/L   | 6/17/93         | 5261H           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                | -                |        |                 |                 |

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| 2F-368-9-1  | 50 92.2 46 .00              | : 2765 | < 0.003     |               | MC /I        |                 |                 |
|-------------|-----------------------------|--------|-------------|---------------|--------------|-----------------|-----------------|
| >F-368-S-1  | 50 92.2.46. CR              | COPES  | 2.216       | 1.205         | 4071         | 57177 <b>45</b> | 152514          |
| PF-368-5-1  | 50 9?.27463 PB              | CPWS   | < 1.13      |               | -0/6         | 5/17/93         | 05261#          |
| 2F-368-SED  | 72.27464 AG                 | CPES   | < 0.01      |               | -4/6         | 5/17/93         | 05261H          |
| PF-368-SED  | 92.27466 BA                 | CPES   | 3.6,<br>7.4 | ~ 1           |              | 5/17/93         | C5261H          |
| PF-368-SED  | 92.27464 00                 | ICPES  | 2.004       |               |              | 6/17/93         | 052618          |
| 2#-368-SED  | 92.27466 CR                 | TOPES  | 0.004       | 0.002         |              | 6/17/93         | 05261H          |
| 24-368-SED  | 72.27464 28                 | 10705  | < 0.23      | J. JUZ        | <b>4</b> G7L | 6/17/93         | ,05261H         |
| PF-368-0-0  | 72.27465 AG                 | I CPES | - 0.03      |               | MG/L         | 5/17/93         | 0 <b>526</b> 1H |
| PF-368-0-0  | 72.27665 RA                 | 10765  | • • •       | • •           | HG/L         | 5/17/93         | 052618          |
| 25-368-0-0  | 72.27465                    | 10765  |             | U.1           | MG/L         | 5/17/93         | 05261H          |
| PF-368-0-0  | 92.27465 CB                 | ICTES  | 1.318       | 0.002         | MG/L         | 6/17/93         | 052618          |
| PF-368-0-0  | 97 27445 DB                 | l Crea | < 0.JU6     |               | MG/L         | 5/17/93         | 052618          |
| 25-368-6408 |                             |        | < 0.03      |               | MG/L         | 6/17/93         | C5261H          |
| 35.348.5408 | 07 77/44 at                 | 10723  | 0.019       | 0.0 <b>02</b> | MG/L         | 6/17/93         | 052618          |
| SE-148-6408 | 72.27400 8A                 | ICPES  | 3.2         | 0.3           | MG/L         | 6/17/93         | 052618          |
| 25-748-5400 |                             | ICPES  | 0.354       | 0.005         | MG/L         | 5/ 7/93         | 052618          |
|             | 92.2/408 CR                 | ICPES  | < 0.004     |               | HG/L         | 6/17/93         | 05261H          |
| PF-308-600R | 92.27466 PE                 | I CPWS | 1.1         | 0.1           | HG/L         | 6/17/93         | 052618          |
| PP-JGA-RIN  | 92.27468 AG                 | ( CPES | < 0.01      |               | MG/L         | 9/20/93         |                 |
| PF-JOA-RIN  | 72.274 <b>68 8A</b>         | ICPES  | < 0.37      |               | MG/L         | 9/20 <b>/93</b> |                 |
| PF-36A-R[N  | 72.27468 CD                 | (CPES  | < 0.01      |               | MG/L         | 9/20/93         |                 |
| PF-36A-RIN  | 92.27468 CR                 | ICPES  | < 0.01      |               | MG/L         | 9/20/93         |                 |
| PF-36A-RIN  | 92.274 <b>68</b> P <b>B</b> | I CPES | < 0.05      |               | MG/L         | 9/20/93         |                 |
| PF-368-RIN  | 92.27 <b>469</b> AG         | ICPES  | < 0.01      |               | NG/L         | 9/20/93         |                 |
| PF-368-RIN  | 92.274 <b>69 BA</b>         | ICPES  | 0.96        | 0.1           | MG/L         | 9/20/93         |                 |
| PF-368-RIN  | 92.27469 CD                 | ICPES  | 0.01        | 0.01          | MG/L         | 9/20/93         |                 |
| PF-368-RIN  | 92.27469 CR                 | ICPES  | < 0.01      |               | HG/L         | 9/20/93         |                 |
| PF-368-RIN  | 92.27469 PE                 | CPES   | 0.05        | 0.05          | HG/L         | 9/20/93         |                 |
|             |                             |        |             |               |              |                 |                 |

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The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Guality Assurance for Health and Environmental Chemistry: 1991,/ LA-12436-MS, Vol. 1, pp. 21-22.

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## **SUPPLEMENT H-6**

## Air Quality Impact Modeling

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## Air Quality Impact Modeling

Air emissions from the open detonation of wood and plastic waste at Technical Area (TA) 14, TA-15, TA-36, and TA-39 are regulated under National and New Mexico Ambient Air Quality Standards. Air emissions from these operations could include criteria pollutants such as carbon monoxide, oxides of nitrogen, particulate matter, sulfur dioxide, and volatile organic compounds. In addition, some hazardous air pollutants such as hydrogen chloride and hydrogen fluoride are emitted as a result of combustion of the binders used to form the high explosives. Impacts from operations of this type must meet ambient air standards for all criteria pollutants<sup>1</sup>. In addition, the waste had the potential for being contaminated with other hazardous materials, such as lead and depleted uranium (DU).

Source terms or the amount of pollutants generated during treatment activities (i.e., detonation) were estimated using published emission factors (AP-42<sup>2</sup>, developed by the U.S. Environmental Protection Agency [EPA]), mass balance calculations, process knowledge, and engineering estimates. In addition, estimates were based on waste profiles containing 90% wood/cardboard/burlap, 10% plastics/paper, and 0.192 pound (lb) of DU per pound of waste detonated.

An EPA-type gaussian plume model was employed with a puff type release function to simulate the airborne release resulting from the explosive treatment of the waste. The worst-case waste treatment and receptor location was used in the scenario (i.e., a 2,000-lb treatment at TA-36). Multiple treatments were used for comparison to those standards having 7-day or more averaging periods. Release heights and release fractions for a typical 50-lb explosive "shot" were determined by Church's method and are shown in Table H-6-1<sup>3</sup>. Airborne effluents were assumed to be transported directly to the potential receptors, using median dispersion factors for the Los Alamos area. The modeled concentration values for the above scenario are provided in Table H-6-2.

<sup>&</sup>lt;sup>1</sup> Hazardous Air Pollutant (HAP) emission standards are regulated under the New Mexico Administrative Code, Title 20, Chapter 2, Part 70. For the LANL facility, these emission standards are 10 tons per year for any one HAP or 25 tons per year for any combination of HAPs. Subsequently, impacts for hydrogen chloride and hydrogen fluoride releases were not included in this modeling analysis.

<sup>&</sup>lt;sup>2</sup> U.S. Environmental Protection Agency, "Compilation of Air Pollution Emission Factors," 4<sup>th</sup> edition (updates through Supplement F, 1995).

<sup>&</sup>lt;sup>3</sup> ACloud Rise from High-Explosives Detonations, Sandia Laboratories," H.W. Church, June 1969, TID-4500 (53rd ed., UC-41, Health and Safety, SC-RR-68-903).

#### Table H-6-1

## **Detonation Cloud Height and Material Distribution**

| Height<br>(meters) | Percent Distribution<br>of Release Fraction<br>in the Cloud |
|--------------------|-------------------------------------------------------------|
| 162                | 20%                                                         |
| 121                | 35%                                                         |
| 81                 | 25%                                                         |
| 40                 | 16%                                                         |
| 0                  | 4%                                                          |

Source: Church, H.W., June 1969, "Cloud Rise from High-Explosives Detonations, Sandia Laboratories," TID-4500 (53<sup>rd</sup> ed., UC-41, Health and Safety, SC-RR-68-903).

#### Table H-6-2

| Chemical                  | Ambi                                                  | ent Air Quality Stand                     | lards                                        | Air Concer                   | trations at:               |
|---------------------------|-------------------------------------------------------|-------------------------------------------|----------------------------------------------|------------------------------|----------------------------|
|                           | (New Mexico Administrative Code, Title 20, Chapter 2) |                                           |                                              | Pajarito Road<br>(800 m NNE) | White Rock<br>(2980 m ESE) |
| Carbon                    | 8-hour average                                        | 0.5 mg/m <sup>3</sup>                     | 8.7 ppm                                      | 0.02 mg/m <sup>3</sup>       | 0.01 mg/m <sup>3</sup>     |
| Monoxide                  | 1-hour average                                        | 2.0 mg/m <sup>3</sup>                     | 13.1 ppm                                     | 0.16 mg/m <sup>3</sup>       | 0.02 mg/m <sup>3</sup>     |
|                           |                                                       |                                           |                                              |                              |                            |
| Nitrogen Oxides           | 24-hour average                                       | 5.0 μg/m³                                 | 0.1 ppm                                      | 5.25E-04 μg/m <sup>3</sup>   | 1.96E-04 μg/m <sup>3</sup> |
|                           | annual arithmetic<br>average                          | 1.0 μg/m³                                 | 0.05 ppm                                     | 1.15E-05 μg/m³               | 4.29E-06 μg/m <sup>3</sup> |
|                           |                                                       |                                           |                                              |                              |                            |
| Total                     | 24-hour average                                       | 150 μg/m³                                 |                                              | 1.4 μg/m <sup>3</sup>        | 0.51 μg/m³                 |
| Suspended<br>Particulates | 7-hour average                                        | 110 μg/m³                                 |                                              | 0.39 μg/m <sup>3</sup>       | 0.15 μg/m³                 |
|                           | 30-day average                                        | 90 μg/m³                                  |                                              | 0.37 μg/m <sup>3</sup>       | 0.14 μg/m <sup>3</sup>     |
|                           | annual geometric<br>mean                              | 60 μg/m <sup>3</sup>                      |                                              |                              |                            |
|                           |                                                       |                                           |                                              |                              |                            |
| Sulfur Dioxide            | 24-hour average                                       | 5.0 μg/m³                                 | 0.1 ppm                                      | $0.054 \ \mu\text{g/m}^3$    | $0.020 \ \mu\text{g/m}^3$  |
|                           | annual arithmetic average                             | 1.0 μg/m <sup>3</sup>                     | 0.02 ppm                                     | 0.001 μg/m <sup>3</sup>      | 0.000 μg/m <sup>3</sup>    |
|                           | (Cod                                                  | Primary Fede<br>e of Federal Regulat      | ral Standards<br>ions, Title 40, Chapt       | er 50)                       |                            |
| Lead and its<br>compounds | calendar quarter                                      | 1.5 μg/m³                                 |                                              | 4.3E-6 μg/m³                 | 1.6E-6 μg/m³               |
|                           |                                                       |                                           |                                              | •                            |                            |
| Ozone (as VOC)            | 1-hour average                                        | 490 μg/m <sup>3</sup><br>(estimated)      | 0.12 ppm                                     | 130 μg/m³                    | 48 μg/m³                   |
|                           | 8-hour average                                        | 327 μg/m <sup>3</sup><br>(estimated)      | 0.08 ppm                                     |                              |                            |
|                           | National<br>(Code of F                                | Emission Standards<br>ederal Regulations, | for Hazardous Air F<br>Title 40, Chapter 61, | Pollutants<br>Subpart H)     |                            |
| Depleted<br>Uranium       | annual maximum                                        | 10 mrem                                   |                                              | NA                           | >0.001 mrem                |

## Air Quality Impacts from Explosive Destruction of Waste

Footnotes:

m NNE = meters north-northeast m ESE = meters east-southeast mg = milligrams m<sup>3</sup> = cubic meters ppm = parts per million  $\mu$ g = microgram VOC = volatile organic compound, a precursor to ozone mrem = millirem NA = not applicable ATTACHMENT I

**PROCEDURES TO PREVENT HAZARDS** 

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### FIGURE NO.

### <u>TITLE</u>

- I-1 Location Map Showing Entry Gate in the Vicinity of the Open Detonation Unit near Technical Area (TA) 36, Building 8
- I-2 Contour Map Showing Industrial and Security Fences in the Region near Technical Area (TA) 36

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## LIST OF ABBREVIATIONS/ACRONYMS

| LACFD       | Los Alamos County Fire Department                           |
|-------------|-------------------------------------------------------------|
| LANL        | Los Alamos National Laboratory                              |
| 20 NMAC 4.1 | New Mexico Administrative Code, Title 20, Chapter 4, Part 1 |
| MSDS        | Material Safety Data Sheets                                 |
| OD          | open detonation                                             |
| PPE         | personal protective equipment                               |
| SOP         | standard operating procedure                                |
| ТА          | technical area                                              |

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## ATTACHMENT I

#### PROCEDURES TO PREVENT HAZARDS

The information provided in this attachment is submitted in accordance with the applicable requirements of the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), revised January 1, 1997 [1-1-97], for the following subject areas:

- X Security procedures and equipment [20 NMAC 4.1, Subpart IX, 270.14(b)(4), and 20 NMAC 4.1, Subpart V, 264.14];
- X Access control [20 NMAC 4.1, Subpart IX, 270.14(b)(19)(viii)];
- X Preparedness and prevention requirements [20 NMAC 4.1, Subpart V, Part 264, Subpart C];
- X Procedures, structures, and equipment for preventing hazards [20 NMAC 4.1, Subpart IX, 270.14(b)(8)];
- X General waste management practices for ignitable, reactive, and incompatible waste [20 NMAC 4.1, Subpart IX, 270.14(b)(9), and 20 NMAC 4.1, Subpart V, 264.17].
- I.1 <u>SECURITY</u> [20 NMAC 4.1, Subpart IX, 270.14(b)(4) and 270.14(b)(19)(viii); 20 NMAC 4.1, Subpart V, 264.14]

The following describes the security features in place at the open detonation (OD) unit located at Technical Area (TA) 36 at Los Alamos National Laboratory (LANL), in accordance with the requirements of 20 NMAC 4.1, Subpart IX, 270.14(b)(4) and 270.14(b)(19)(viii), and 20 NMAC 4.1, Subpart V, 264.14 [1-1-97].

In compliance with LANL standard operating procedures (SOP) for the OD unit (see Attachment G for SOPs), manned roadblocks are established along access roads in the vicinity of the OD unit to further reduce the possibility of entry into this area during actual treatment operations. Personnel manning the roadblocks maintain two-way radio contact with access controllers and firing site personnel and can stop the operation should a breach of security occur. In accordance with 20 NMAC 4.1, Subpart IX, 270.14(b)(19)(viii) [1-1-97], the location of the entry gate in the vicinity of the unit at TA-36 is shown on Figure I-1. The location of industrial and security fences in the TA-36 region are shown on Figure I-2. Collectively, these security procedures and the security features discussed below prevent the unknowing entry and minimize the possibility for unauthorized entry of persons into the OD unit, in accordance with the requirements of 20 NMAC 4.1, Subpart V, 264.14(b)(2) [1-1-97].

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The OD unit at TA-36 is located within a secured area at which security is maintained through both administratively controlled and physical barriers. Access to the area can only be gained through controlled entry stations by persons possessing appropriate security clearance. Entry stations are located on Anchor Ranch Road for access through TA-69 off of West Jemez Road, and on Potrillo Drive for access through TA-18 off of Pajarito Road. The entry stations are manned by Protection Technology Los Alamos security personnel 24 hours a day. In addition, an industrial fence surrounds portions of TA-36. Fences are inspected on a regular basis by security personnel, and repairs are made as necessary. Warning signs are posted at the entrance to the OD unit area and can be seen by personnel approaching the area. The legend on the signs indicates "Danger Explosives Area." Signs reading "Authorized Personnel Only" are posted on gates on interior access roads in the vicinity of the OD unit. All warning signs are legible from a distance of 25 feet and are written in English and Spanish.

## I.2 <u>PREPAREDNESS AND PREVENTION REQUIREMENTS</u> [20 NMAC 4.1, Subpart V, Part 264, Subpart C]

The following sections present how operations at the TA-36 OD unit comply with the preparedness and prevention requirements of 20 NMAC 4.1, Subpart V, Part 264, Subpart C [1-1-97]. Health and safety procedures followed by site personnel during routine operations are discussed in SOPs (see Attachment G).

## I.2.1 Required Equipment [20 NMAC 4.1, Subpart V, 264.32]

In accordance with the requirements of 20 NMAC 4.1, Subpart V, 264.32 [1-1-97], the TA-36 OD unit is equipped with adequate emergency equipment, which includes internal and external communication equipment, alarm systems, fire extinguishers, and fire control and decontamination equipment. Emergency equipment specific to the OD unit at TA-36 is discussed in the following sections and is summarized in Table E-1 in Attachment E of this Part B permit application. LANL-wide emergency equipment available for use at any of the LANL waste management units is presented in Appendix E of the ALos Alamos National Laboratory General Part B Permit Application,  $\cong$  Revision 1.0 (LANL, 1998), hereinafter referred to as the LANL General Part B.

Alarm systems are in place at the OD unit at TA-36 and are used to alert personnel to clear the area. The alarm systems, which consist of sirens and red flashing lights, are activated prior to and during treatment operations. The sirens are also sounded at the completion of treatment operations to signal that an area is clear. In addition, emergency "kill" switches are located at the OD unit and

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may be activated by any personnel to halt operations in the event of abnormal or unusual conditions. A fire alarm pull station is located in TA-36-8, the control building. This pull station can be accessed by personnel working at the OD unit. Upon activation of the fire alarm system, an audible alarm sounds to alert personnel of emergency conditions. Manual pull stations are connected to the Los Alamos County Fire Department (LACFD) through LANL's central alarm system at all times (see Appendix E of the LANL General Part B).

Conventional telephones are available during treatment operations at the OD unit to provide adequate communication and to summon external emergency assistance, if necessary. Telephones are located in the control building. These telephones may be used in an emergency to communicate the location and nature of hazardous conditions to personnel in the area.

Fire extinguishers are located in TA-36-8. In addition, each vehicle used to transport explosives is equipped with an ABC fire extinguisher. Depending on the size of the fire and the fuel source, fire extinguishers may be used by on-site personnel. However, LANL policy encourages immediate evacuation of the area and notification of appropriate emergency personnel.

Although permanent sources of water (i.e., a fire hydrant) are not available in the immediate vicinity of the OD unit, arrangements can be made with the LACFD to provide water tanker trucks to the site for use in an emergency. The water tanker trucks are capable of supplying water at adequate volume and pressure for use in fire-suppression activities to meet the requirements of 20 NMAC 4.1, Part V, 264.32(d) [1-1-97]. SOPs are in place that describe when and how fire department assistance is to be used.

Spill control equipment is not stored at the TA-36 OD unit. This equipment is available at the Lower Slobbovia site at TA-36 and can be made accessible, if necessary, to personnel at the TA-36 OD unit.

An eyewash station is located in TA-36-8, and a portable eyewash station is available in the immediate area of the OD unit, when required. Self-contained breathing apparatus are located in TA-36-8.

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Material Safety Data Sheets (MSDS), which provide useful exposure information, are available at the group office. MSDSs, first aid kits, and hearing protection equipment are also available at the TA-36 OD unit.

## I.2.2 Testing and Maintenance of Equipment [20 NMAC 4.1, Subpart V, 264.33]

Communications and alarm systems and fire protection and decontamination equipment located at the TA-36 OD unit are tested and/or maintained according to the inspection schedule detailed in Appendix C of the LANL General Part B. The frequency of inspection is adequate to assure proper operation in the event of an emergency. Repair and replacement of emergency equipment are performed, as needed.

## I.2.3 Access to Communications or Alarm System [20 NMAC 4.1, Subpart V, 264.34]

Whenever treatment operations are being conducted at the TA-36 OD unit, involved personnel have immediate access to an emergency communication device, either directly or through visual or voice contact with another individual. In the event of an emergency, communication equipment at the TA-36 OD unit allows personnel to contact the operating group management, the Emergency Management and Response Office, and/or the Central Alarm Station operator (refer to Appendix E of the LANL General Part B). In addition to the communications and alarm systems described in this section, two-way radios, pagers, and/or cellular telephones are also used at the TA-36 OD unit to provide additional means of communication between on-site personnel and/or to contact LANL emergency support personnel.

## I.2.4 Space Requirements [20 NMAC 4.1, Subpart V, 264.35]

At the OD unit, adequate space is maintained to allow the unobstructed movement of personnel and fire protection, spill control, and decontamination equipment in the event of an emergency.

I.2.5 <u>Support Agreements with Outside Agencies</u> [20 NMAC 4.1, Subpart V, 264.37]
 Information on support agreements with outside agencies, as required by 20 NMAC 4.1, Subpart V, 264.37 [1-1-97], is presented in Section 2.0 of the LANL General Part B.

## I.3 <u>PREVENTIVE PROCEDURES, STRUCTURES, AND EQUIPMENT</u> [20 NMAC 4.1, Subpart IX, 270.14(b)(8)]

Descriptions of the preventive procedures, structures, and equipment at the TA-36 OD unit are presented below. This information is provided in accordance with the requirements of 20 NMAC 4.1, Subpart IX, 270.14(b)(8) [1-1-97]. Adherence to the procedures and proper use of the structures

and equipment will help to prevent hazards, prevent undue exposure of personnel to hazardous waste, and prevent releases to the environment.

At the TA-36 OD unit, large containers of explosives-contaminated waste or explosive materials are typically handled using mechanical equipment such as a truck-mounted crane or a hydraulic lift gate. Small containers of waste are handled manually or with a dolly. The use of proper handling equipment, appropriate to a container's size and weight, helps to prevent hazards while moving containers at the OD unit. Additionally, personnel involved in waste handling and container handling operations at the OD unit are knowledgeable of the physical and chemical properties of the waste managed at the site and take additional precautions, as necessary, to ensure that containers are handled safely.

Pursuant to the requirements of 20 NMAC 4.1, Subpart IX, 270.14(b)(19)(xi) [1-1-97], Figure A-2 in Attachment A shows surface contours and drainage around the TA-36 OD unit. Engineering controls are in place at the OD unit to prevent runoff of wastes from the unit to other areas of the facility or to the environment (see Figure A-8 in Attachment A).

For several reasons, it is not anticipated that there will be any impact to groundwater or other water supplies as a result of treatment operations at the TA-36 OD unit. The depth to groundwater at LANL ranges from 600 feet to 1,200 feet. Geologic units underlying the area include layers of unsaturated volcanic tuff and ash, the moisture content of which is generally less than 10 percent (Daniel B. Stephens & Associates, Inc., 1995). Because the moisture content is insufficient for moisture migration through the Bandelier Tuff, no impact to groundwater is expected. In addition, all water supply lines are under pressure and are equipped with backflow prevention devices.

Electrical power is supplied to the control building near the TA-36 OD unit. Supplied power at this building is used to operate lighting and telephone and alarm systems. Operations at the OD unit would be discontinued temporarily if electrical power was not restored quickly.

Safety shoes, safety glasses, and other personal protective equipment (PPE) required in explosives areas are worn by workers during routine operations at the OD unit. Additional appropriate PPE is available should abnormal or unusual conditions require such equipment.

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Releases to the atmosphere resulting from treatment activities at the TA-36 OD unit cannot be prevented. However, assuming a conservative scenario of treatment activities at the unit (as discussed in Section H.4 of Attachment H), estimated resulting emissions will not exceed regulatory levels and, therefore, will not adversely affect human health or the environment.

## I.4 <u>PREVENTION OF ACCIDENTAL IGNITION OR REACTION OF IGNITABLE, REACTIVE,</u> <u>OR INCOMPATIBLE WASTE</u> [20 NMAC 4.1, Subpart IX, 270.14(b)(9), 270.15(c) and (d) and 20 NMAC 4.1, Subpart V, 264.17, 264.176, and 264.177]

This section details the precautions taken to prevent accidental ignition or reaction of ignitable, reactive, or incompatible wastes at the TA-36 OD unit.

Ignitable wastes are not treated at the TA-36 OD unit. Containers holding reactive wastes are or will be located at least 50 feet from the facility's property line at all times and will be protected from sources of reaction. Smoking is not permitted in areas where wastes are managed. Signs indicating "No Smoking Except in Designated Areas" are conspicuously placed at the entrances to the OD unit, as required by 20 NMAC 4.1, Subpart V, 264.17(a) [1-1-97]. Together, these measures meet the requirements of 20 NMAC 4.1, Subpart V, 264.17(a) and (b) and 264.176 [1-1-97].

Incompatible wastes, if managed at the TA-36 OD unit, are segregated to prevent adverse reactions from occurring through commingling of the wastes. In addition, no incompatible wastes will be mixed, and no waste will be placed in a container that previously held an incompatible waste, as required by 20 NMAC 4.1, Subpart V, 264.177(a) and (b), and 20 NMAC 4.1, Subpart IX, 270.15(d) [1-1-97]. If incompatible wastes are managed at the OD unit, the requirements of 20 NMAC 4.1, Subpart V, 264.177(c) [1-1-97], will also be met. Only containers made of or lined with materials that will not react with and are otherwise compatible with the waste to be managed will be used at the OD unit.

## I.5 <u>REFERENCES</u>

LANL, see Los Alamos National Laboratory.

Daniel B. Stephens & Associates, Inc., 1995, ALaboratory Analysis of Soil Hydraulic Properties of LANL Mixed Waste Disposal Project Soil Samples,≅ Daniel B. Stephens & Associates, Inc., Albuquerque, New Mexico.

Los Alamos National Laboratory (LANL), 1998, ALos Alamos National Laboratory General Part B Permit Application,≅ Revision 1.0, Los Alamos National Laboratory, Los Alamos, New Mexico.



**Figure I-1** Location Map Showing Entry Gate in the Vicinity of the Open Detonation Unit near Technical Area (TA) 36, Building 8



## LEGEND

Boundary, Los Alamos National Laboratory Boundary, Technical Area (TA) Contours, 100 foot  $\wedge /$ and a second sec Fence, Industrial Fence, Security Roads, Dirt Roads, Paved Road/Trail Stream, Intermittent  $\overline{\phantom{a}}$ Stream, Perennial Building **Open Detonation Unit Residential Areas** 

## 2351-D

Figure I-2: Contour Map Showing Industrial and Security Fences in the Region near Technical Area (TA) 36



## ATTACHMENT J

## BASELINE HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT FOR TECHNICAL AREA 36-8
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## FIGURE NO.

# <u>TITLE</u>

J-1 Site Conceptual Model for TA-36-8 Current and Future Land Use

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## LIST OF ABBREVIATIONS/ACRONYMS

| cm <sup>2</sup>  | square centimeter(s)                             |
|------------------|--------------------------------------------------|
| COPC             | chemical of potential concern                    |
| COPEC            | chemicals of potential ecological concern        |
| EPA              | U.S. Environmental Protection Agency             |
| g                | gram(s)                                          |
| g/m²-hr          | gram(s) per square meter per hour                |
| HEAST            | Health Effects Assessment Summary Tables         |
| HI               | hazard index                                     |
| hr               | hour(s)                                          |
| HQ               | hazard quotient                                  |
| hr/day           | hours per day                                    |
| ILCR             | incremental lifetime cancer risk                 |
| IRIS             | Integrated Risk Information System               |
| kg               | kilogram(s)                                      |
| LANL             | Los Alamos National Laboratory                   |
| LD <sub>50</sub> | lethal dose to 50 percent of the test population |
| LOAEL            | lowest-observed-adverse-effect-levels            |
| log              | logarithm                                        |
| m/sec            | meter(s) per second                              |
| m <sup>2</sup>   | square meter(s)                                  |
| m <sup>3</sup>   | cubic meter(s)                                   |
| mg               | milligram(s)                                     |
| mg/day           | milligram(s) per day                             |
| mg/kg            | milligram(s) per kilogram                        |
| mg/kg-day        | milligram(s) per kilogram(s) per day             |
| mg/L             | milligram(s) per liter                           |
| Ν                | number of samples                                |
| NCP              | National Contingency Plan                        |
| NOAEL            | no-observed-adverse-effect-level                 |
| OD               | open detonation                                  |
| OU               | operable unit                                    |
| RAGS             | Risk Assessment Guidance for Superfund           |
| RfD              | reference dose                                   |

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## LIST OF ABBREVIATIONS/ACRONYMS (continued)

- RME reasonable maximum exposure
- SF slope factor
- TA technical area
- TES threatened, endangered, or sensitive
- UCL upper confidence limit
- UTL upper tolerance limit

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## J.1 INTRODUCTION

This attachment addresses the overall baseline human health and ecological effects of exposure to chemicals of potential concern (COPC) in surface soil, sediment, and air for the Technical Area (TA) 36-8 open detonation (OD) unit at Los Alamos National Laboratory (LANL).

The human health risk assessment is an estimation of potential risk which may occur at TA-36-8 under normal operating conditions. This risk assessment was performed in accordance with the "Risk Assessment Guidance for Superfund" (RAGS) (U.S. Environmental Protection Agency [EPA], 1989) and additional guidance provided by EPA.

The ecological risk assessment process performed for the TA-36-8 site is a screening level assessment. Methodology used is based on screening level guidance presented by EPA (EPA, 1992a; 1997; 1998) and by Wentsel et al. (1996) and is consistent with a phased approach. This assessment utilizes conservatism in the estimation of ecological risks; however, ecological relevance and professional judgement are also incorporated, as recommended by EPA (1998) and Wentsel et al. (1996), to ensure that the predicted exposures of selected ecological receptors reasonably reflect those expected to occur at the site.

This report consists of the following major elements: identification of COPCs (Section J.2), human health risk assessment (Section J.3), and ecological risk assessment (Section J.4).

## J.2 IDENTIFICATION OF CHEMICALS OF POTENTIAL CONCERN

This section identifies the COPCs for TA-36-8 at LANL. Pertinent data collection considerations are discussed, and the data evaluation process is presented.

Data collected during the investigations were evaluated for use in this risk assessment in accordance with EPA guidance (EPA, 1989). This process included evaluating the sample collection and analytical methods used, evaluating the quality of the data, and selecting the COPCs. The goal of the COPC selection process was three-fold: (1) to identify those chemicals that are likely to be site-related, (2) to determine the acceptability of the analytical data for use in the risk assessment, and (3) to focus the risk assessment on those constituents that represent the dominant potential risks at the site. The various analytical data used are provided in Attachment L of this Part B permit application.

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## J.2.1 <u>Site Description</u>

TA-36 is spread over several mesa tops between a branch of Pajarito Canyon to the north and Water Canyon to the south. The mesa tops are primarily woodlands and savanna. Mesa-top elevations range from approximately 6,380 feet to 7,120 feet above mean sea level. TA-36 contains several firing sites and supporting offices where research is conducted with various types of explosives. TA-36-8 is located in the southern portion of TA-36.

## J.2.2 Methodology for Selection of Chemicals of Potential Concern

This section presents the procedure used to identify the COPCs for TA-36-8. The analytical data were organized by medium into individual data sets (e.g., surface soil data). For individual data sets that contained nondetections (i.e., data which were "U" or "UJ" qualified), the detection limit of the nondetected result was divided by two before any statistical calculation was performed. These steps are in accordance with EPA guidance (EPA, 1989). All statistical calculations were performed using STATISTICA<sup>®</sup> (Statsoft, 1996) for Windows, Version 5. The following statistical manipulations were performed on each of the individual data sets:

- Frequency Sampled Number of samples that were collected and analyzed for a particular chemical in a specific medium.
- Number of Detections Number of detections of a particular chemical in a specific medium.
- Maximum Concentration Highest concentration of a particular chemical in a specific medium.
- Minimum Concentration Lowest concentration of a particular chemical in a specific medium. This value may be one half of the detection limit for data sets which contain nondetections.
- Mean Concentration Arithmetic mean of a particular chemical in a specific medium.
- Standard Deviation Sample standard deviation of a particular chemical in a specific medium.
- Upper 95-Percent Confidence Limit of the Mean (UCL) 95-percent UCL was calculated for a chemical in a specific medium using the Student's *t* statistic and assuming that the analytical data were normally distributed.
- Upper 95-Percent Tolerance Limit (UTL) 95-percent UTL was calculated for a chemical in a specific medium for comparison to background.

Subsequent to the statistical calculations, analytical results were screened using criteria from EPA guidance (EPA, 1989) to focus the risk assessment process on those constituents that were COPCs. The screening criteria included the following:

- COPCs which were 100 percent nondetections for a given medium were eliminated from consideration.
- If inorganic chemicals were present in soil at naturally occurring background levels, they
  were eliminated from consideration. The 95-percent UTL for the TA-36-8 analytical data
  were compared to 95-percent UTL regional background concentrations. If the TA-36-8
  UTL was less then the regional background UTL, the inorganic chemical was eliminated
  as a COPC.
- All metals which are considered essential nutrients were eliminated from consideration.
- Due to the presence of several laboratory contaminants in virtually all environmental sampling efforts, the EPA has developed guidance for eliminating these contaminants from consideration as a COPC. A chemical is excluded from consideration if the maximum sample concentration does not exceed 10 times the highest blank concentration for all common laboratory contaminants (these include 2-butanone, acetone, methylene chloride, toluene, and phthalate) or does not exceed 5 times the highest blank concentration for other chemicals (EPA, 1989). This criterion was developed by the EPA to prevent the inclusion of chemicals that are most likely sampling or analytical artifacts. Although no COPCs were detected in the TA-36-8 blank samples, it is possible that both of the phthalate compounds detected in surface soil samples from TA-36-8 are laboratory contaminants.
- Constituents that are infrequently detected may be artifacts in the data due to sampling, analytical, or other problems (EPA, 1989). Constituents were eliminated from further consideration as COPCs if they were detected in 5 percent or less of the data from a particular source area. Class A carcinogens, however, were not eliminated on the basis of frequency of detection.

The remaining COPCs were carried through the risk assessment process.

#### J.2.3 Chemicals of Potential Concern

Existing analytical data for surface soil at TA-36-8 are summarized in Table J-1. These data include the limited sediment data available at TA-36-8. Included in this summary are the number of samples (N), the number of detections, the maximum and minimum values, mean, standard deviation, 95-percent UCL, 95-percent UTL, the LANL regional background value (if it exists), the determination of whether the analyte is a COPC, and the reason for exclusion if the analyte is not a COPC.

Table J-2 summarizes the air modeling results for air emissions from OD of wood and plastic waste at TA-14, TA-15, TA-36, and TA-39. The worst-case waste treatment and receptor locations were used in the modeled scenario (i.e., a 2,000 pound treatment at TA-36). TA-36-8 ODs are typically smaller in size. Therefore, under baseline conditions, air emissions due to routine operations at TA-36-8 are minimal (i.e., no risk to potential occupational receptors).

## J.3 HUMAN HEALTH RISK ASSESSMENT

This human health risk assessment was performed in accordance with RAGS (EPA, 1989) and additional EPA guidance.

#### J.3.1 Exposure Assessment

This section identifies exposure pathways and quantifies chemical intakes. The purpose of this exposure assessment is to estimate the type and magnitude of exposure to humans.

## J.3.1.1 Exposure Pathways

For exposure and potential risks to occur, complete exposure pathways must exist. A complete pathway requires the following elements (EPA, 1989):

- A source and mechanism for release of contamination,
- A transport or retention medium,
- A point of potential human contact (exposure point), and
- An exposure route at the exposure point.

If any one of these elements is missing, the pathway is not considered complete. Following is a brief discussion of the exposure pathway elements.

Contamination sources and the transport /retention medium are the same as those addressed in Section J.2.3. At TA-36-8, the primary medium of concern is surface soil.

Exposure points are locations of human contact with contaminated media. Exposure points consider human activity patterns and the location of potentially exposed individuals relative to the location of contaminated media. For this assessment, contact with potentially contaminated media takes place as a result of occupational exposure. To maintain the conservative methodology of RAGS (EPA, 1989), the contact point for surface soil contamination in all exposure scenarios is located at the contaminant source.

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The following three exposure routes were examined:

- Ingestion,
- Inhalation (both dust and modeled air concentrations), and
- Dermal contact.

Because land use at LANL and TA-36-8 is restricted, the only potential current on-site user is an occupational receptor. The potentially complete exposure pathways include exposure to surface soil, surface water (under limited conditions), and air. Figure J-1 illustrates the site conceptual model for TA-36-8. Table J-3 lists the complete human exposure pathways for current land use. This table also indicates which pathways have been selected for risk characterization and presents the rationale for inclusion or exclusion of each pathway.

Because land use at TA-36-8 is expected to remain under U.S. Department of Energy control, future pathways at TA-36-8 will be similar to the current pathways listed above. Therefore, this risk assessment assumes that any restrictions currently in place will remain in place for the foreseeable future. Under these conditions, the current and future human health risks are identical (i.e., the pathways and receptors are the same). For the remainder of this attachment, these risks will be linked to an occupational receptor with no further consideration of whether the exposure is current or future.

#### J.3.1.2 Quantification of Exposure

This section describes the estimation of exposure (intake) for the COPCs that may come into contact with human receptors. The process involves the following:

- Identification of applicable human exposure models and input parameters,
- Determination of the concentration of each chemical in environmental media at the point of human exposure, and
- Estimation of human intakes.

For each potentially complete future exposure pathway identified in Section J.3.1.1, a reasonable maximum exposure (RME) scenario has been developed. The RME is the highest exposure that is reasonably expected to occur at a site (EPA, 1989). The intent of the RME, as defined by EPA, is to estimate a conservative exposure case (i.e., well above the average case) that is still within the

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possible range of exposures. The RME is both protective and reasonable but is not the worst possible case (EPA, 1991a).

#### J.3.1.2.1 Exposure Models

The primary source for the exposure models used in this baseline risk assessment is RAGS (EPA, 1989). Shown below is the generalized equation for calculating chemical intakes:

$$I = C - \frac{CR \ x \ EFD}{BW \ x \ AT}$$

where

- I = Intake; the amount of chemical at the exchange boundary (milligrams per kilogram [mg/kg] body weight per day [mg/kg-day]).
- C = Chemical concentration at the exposure point; the concentration contacted over the exposure period (e.g., mg per liter [mg/L] water or mg/kg soil).
- CR = Contact rate; the amount of contaminated medium contacted per unit time or event (e.g., mg per day [mg/day] soil ingestion rate or cubic meters per hour air inhalation rate).
- EFD = Exposure frequency and duration; describes how often and how long exposure occurs. Often calculated using two terms (EF times ED).
- EF = Exposure frequency (days/year).
- ED = Exposure duration (years).
- BW = Body weight; the average body weight over the exposure period (kg).
- AT = Averaging time; period over which exposure is averaged (days).

Each model for exposure to COPCs at TA-36-8 is summarized below.

#### **Ingestion of Soil**

For estimating chemical intake from ingestion of soil, the following equation applies:

$$Intake = \frac{C_i \ x \ EF \ x \ F \ x \ IR \ x \ ED}{AT \ x \ BW}$$

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where

| Intake = | Intake of chemical through ingestion of medium | (ma/ka-dav).   |
|----------|------------------------------------------------|----------------|
|          | make of chemical anough ingestion of mediam    | (ing/ing/ddy). |

- C<sub>i</sub> = Chemical concentration in medium i (mg/kg).
- IR = Ingestion rate for medium i and receptor (kg/day).
- F = Fraction of ingested medium from contaminated source (unitless).

EF, ED, BW, and AT are defined above.

#### Inhalation of Dust

Ambient sampling for beryllium has been conducted at numerous regional, perimeter, and on-site locations at and surrounding LANL. The measured on-site beryllium concentrations (see LANL's Environmental Surveillance Reports for 1993, 1992, 1991, and 1990) (LANL, 1995, 1994, 1993, and 1992) are significantly lower than the TA-36-8 site-specific values modeled in this analysis. This risk assessment was performed based on an EPA particulate emission factor (EPA, 1996a) using TA-36-8 site-specific values.

For estimating respirable particulate emission from wind erosion, assuming an unlimited reservoir, the equation is (EPA, 1996a):

$$E_{10} = 0.036 (1-V) \left(\frac{[u]}{u_t}\right)^3 f(x)$$

where

- $E_{10} = PM_{10}$  emission factor (grams per square meter [g/m<sup>2</sup>]-hour [hr]).
- V = Fraction of contaminated surface vegetative cover (unitless, assumed to be 0).

[u] = Mean annual wind speed (meters per second [m/sec], 3.2 m/sec).

 $u_t = The threshold value of wind speed at 7 meters (m/sec).$ 

$$f(x) =$$
 Function plotted in EPA, 1996a [ $f(x) = 1.5$ ] where x = 0.886 u<sub>t</sub>/[u].

Once the  $PM_{10}$  emission factor is calculated, the emission rates for the individual COPCs were calculated according to the following:

$$R_{10} = \alpha \ x \ E_{10} \ x \ A \ x \ C$$

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where

| R <sub>10</sub> | = | Emission rate of contaminant as PM <sub>10</sub> (mg/hr  |
|-----------------|---|----------------------------------------------------------|
| <b>π</b> 10     | = | Emission rate of contaminant as Pivi <sub>10</sub> (mg/n |

- $\alpha$  = Chemical concentration (mg/kg).
- $E_{10} = PM_{10}$  emission factor (g/m<sup>2</sup>-hr).
- A = Site area (square meters  $[m^2]$ , assumed to be 1000 m<sup>2</sup>).
- C = Conversion factor for kg to grams (g).

Once the dust concentration in air has been calculated for each COPC, the chemical intake is:

$$Intake = \frac{C_i \ x \ BA \ x \ IR \ x \ ET \ x \ EF \ x \ ED}{BW \ x \ AT}$$

where

- $C_i$  = Chemical-specific air concentration (g/cubic meter [m<sup>3</sup>]).
- BA = Bioavailability factor (unitless).
- IR = Inhalation rate ( $m^3$ /event, typically  $m^3$ /hr).
- ET = Exposure time (hr/day).

EF, ED, BW, and AT are defined above.

#### **Dermal Contact Soil**

The following is the chemical intake equation for dermal absorption of chemicals due to contact with soil or sediment:

$$AD = \frac{C_i \ x \ AF \ x \ ABS \ x \ CF \ x \ SA \ x \ EF \ x \ ED}{AT \ x \ BW}$$

where

| AD  | = | Absorbed dose (mg/kg-day).                           |
|-----|---|------------------------------------------------------|
| Ci  | = | Chemical concentration in medium (mg/kg).            |
| AF  | = | Soil-to-skin adherence factor (mg/cm <sup>2</sup> ). |
| ABS | = | Skin absorption factor (unitless).                   |

- $CF = Conversion factor (10^{-6} kg/mg).$
- SA = Skin surface area available for contact (square centimeters [cm<sup>2</sup>]/event).
- EF = Exposure frequency (events/year).

ED, BW, and AT are defined above.

#### J.3.1.2.2 Exposure Parameters

Three types of parameters are used in exposure models to estimate intake (EPA, 1989):

- Chemical-related parameters (e.g., exposure point concentrations),
- Parameters that describe the exposed population (e.g., contact rate, exposure frequency and duration, and body weight), and
- Toxicity-related parameters (i.e., slope factors [SF] and reference doses [RfD]).

The exposed population and exposure-related parameters are summarized in Table J-4. The exposure parameters were taken from EPA guidance and are based on best professional judgement using site-specific information, where available. Upper-bound values are generally 90th or 95th percentile values, depending on the data available for each parameter. A combination of upper-bound and average exposure parameters were used to estimate the RME for each scenario.

## J.3.1.2.3 Intakes for Chemicals of Potential Concern

Noncarcinogenic and carcinogenic intakes of COPCs at TA-36-8 are discussed in Section J.3.3.3. Intakes are expressed in units of milligrams of individual constituent per kilogram of receptor per day.

#### J.3.2 <u>Toxicity Assessment</u>

Toxicity information is given in the same units provided by the source material (dose rates and concentrations are primarily used). The EPA weight-of-evidence classification (cancer class) system for carcinogenicity is presented here for reference. The classification is as follows (EPA, 1989):

- Class A Human carcinogen,
- Class B1 Probable human carcinogen; limited human data available,

- Class B2 Probable human carcinogen; sufficient evidence in animals; inadequate or no evidence in humans,
- Class C Possible human carcinogen,
- Class D Not classifiable as to human carcinogenicity, and
- Class E Evidence of noncarcinogenicity for humans.

Slope factors are typically calculated for potential carcinogens in Classes A, B1, and B2. Quantitative estimation of slope factors for chemicals in Class C proceeds on a case-by-case basis.

For chemicals, the primary source for toxicity values, both RfD and SF, is the Integrated Risk Information System (IRIS) (EPA, 1999). If a toxicity value for a given chemical is not available in IRIS, the secondary source is the Health Effects Assessment Summary Tables (HEAST) (EPA, 1996b). No surrogate values were developed for chemicals for which no toxicity information existed in either of the above references.

Table J-5 summarizes the chemical toxicity information including the COPC, RfD, SF, and EPA cancer classification.

#### J.3.3 Risk Characterization

This section provides a characterization of the potential health risks associated with the intake of chemicals at TA-36-8. Risk characterization compares estimated potential cancer risks with reasonable levels of risk for carcinogens and compares estimated daily intake (rate) with reference levels for noncarcinogens. Carcinogens may also pose a systemic (noncarcinogenic) hazard, and these potential hazards are characterized in the same manner as other noncarcinogens.

Estimation of potential risk from exposure to the site contaminants is based on RAGS (EPA, 1989). This assessment employs a health-protective bias that leads to the overestimation of risk. Individuals are exposed to an RME (see Section J.3.1.1) and exposure is evaluated (see Section J.3.1.2) to provide estimates of daily intakes. These estimated intakes (rates) are combined with the individual chemical toxicological values (see Section J.3.2) to determine the potential carcinogenic risks and the potential systemic impacts on human health.

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## J.3.3.1 Estimation of Carcinogenic Risk

In weighing occupational exposure to potentially carcinogenic compounds, a reasonable level of risk must be selected. The EPA used an incremental lifetime cancer risk (ILCR) (also referred to as excess cancer risk) of one in one million  $(1 \times 10^{-6})$  as the lower bound of an acceptable range for developing drinking water standards. The upper bound of an acceptable ILCR recommended by the EPA for drinking water is 1 in 10,000 ( $1 \times 10^{-4}$ ) (EPA, 1987). In addition, the EPA specifies a risk range of  $10^{-6}$  to  $10^{-4}$  associated with the consideration and selection of remedial alternatives for contaminated land in the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (EPA, 1990).

Based on the regulatory precedents cited above, a reasonable and appropriate ILCR range would be from 10<sup>-6</sup> to 10<sup>-4</sup>. As implemented under the NCP, pathway ILCRs greater than 10<sup>-6</sup> must receive risk management consideration (EPA, 1990). The quantitative risk assessment is one of many factors that is considered in the decision-making process for remediation. Therefore, there is no single risk value that defines "acceptable" and "unacceptable" risk. The purpose of this risk assessment is to present quantitative and qualitative estimates of potential risk; thus, all pathway risks greater than the lower bound of 10<sup>-6</sup> will be examined.

For TA-36-8, cumulative site ILCRs were developed. These cumulative ILCRs included all media and pathways that were appropriate to combine. Cumulative ILCRs occur when there is potential for an individual to be exposed to multiple pathways at the same given instant in time. Where the cumulative site ILCR to an individual based on the RME for both current and future land use is less than 10<sup>-4</sup>, action is generally not warranted unless there are adverse environmental impacts (EPA, 1991b).

Carcinogenic risk is estimated as the probability of an additional incidence of cancer above background. This risk is:

$$ILCR = SF x Intake$$

where

ILCR = ILCR (unitless).

SF = Carcinogenic SF  $[(mg/kg-day)^{-1}]$ .

Intake = Chronic daily intake averaged over a 70-year lifetime (mg/kg-day).

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The carcinogenic SFs for the COPCs are presented in Table J-5.

For a given pathway and medium with exposure to several carcinogens, the following equation was used to sum the cancer risk:

$$Risk_{t,p} = \sum_{I=1}^{I} ILCR_{p} (chem_{i})$$

where

| Risk <sub>t,p</sub> =                    | = | Total cancer risk for pathway p (unitless).                         |  |  |  |  |  |  |  |  |  |
|------------------------------------------|---|---------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| ILCR <sub>p</sub> (chem <sub>i</sub> ) = | = | Individual cancer risk for constituent i through exposure pathway p |  |  |  |  |  |  |  |  |  |

Estimates of ILCRs for each exposure pathway are addressed in Section J.3.3.3.

#### J.3.3.2 Estimation of Noncarcinogenic Risk

Chemicals that pose a health threat other than cancer were evaluated by comparing an exposure level or intake to an acceptable level or RfD. The ratio of estimated daily intake to the RfD is termed the hazard quotient (HQ) and is defined as:

$$HQ_{i,p} = \frac{I_{i,p}}{RfD_{i}}$$

where

- $HQ_{i,p}$  = Individual HQ for exposure to constituent i through exposure pathway p (unitless).
- $I_{i,p}$  = Daily intake via a specific pathway p for constituent i (mg/kg-day).
- RfD<sub>i</sub> = RfD for exposure by the specific pathway (limited to oral and inhalation values) for constituent i (mg/kg-day).

The RfD is an estimate of the intake level to which a human population, including sensitive subpopulations, may be chronically exposed without a significant risk of adverse health effects (EPA, 1989). The RfDs for the COPCs at TA-36-8 are listed in Table J-5. Because the HQ does not define intake response relationships, its numerical value should not be construed as a direct

estimate of risk, but it does suggest that a given situation should be more closely scrutinized. The concept of the HQ implies the existence of a threshold for systemic health effects. It is a numerical indication of the fraction of acceptable limits of exposure or the degree to which acceptable exposure levels are exceeded. As the HQ increases toward unity, concern for the potential hazard of the constituent increases. A value above unity is an indication of risk, although a direct correlation to the magnitude of the risk cannot be drawn.

In the case of simultaneous exposure to several chemicals, the hazard index (HI) is calculated to evaluate the potential risk from exposure to the mixture by summing the HQs for each chemical, media, and pathway. The total HI incorporates the assumption of additive effects when dealing with a mixture of components. The HI formula is as follows (EPA, 1989):

$$HI = \sum_{i=1}^{I} HQ_i$$

where

HI = Hazard index (unitless).

HQ<sub>i</sub> = Hazard quotient for exposure to constituent i (unitless).

Summation of the individual HQs could result in an HI that exceeds 1, even if no single chemical exceeds its acceptable level. Mechanistically, it is not appropriate to sum HQs unless the constituents that make up the mixture have similar modes of action on an identical organ. Consequently, the summing of HQs for a mixture of compounds that is not expected to include the same type of effects could overestimate the potential risk. The EPA recommends that if the total HI is greater than unity, the components of the mixture should be grouped by critical effect, and separate hazard indices should be calculated for each effect.

Estimates of noncarcinogenic risks for each occupational exposure pathway are provided in the following section.

#### J.3.3.3 Results of the Human Health Risk Characterization

Tables J-6 and J-7 summarize the risks for each exposure pathway at TA-36-8. Included in this summary are the carcinogenic and noncarcinogenic intakes; ILCRs and HQs for each COPC and pathway; and pathway total ILCR and HI.

This human health risk assessment suggests that the current level of contamination for surface soil does not pose a potential significant risk to human health. None of the individual COPCs for any of the pathways considered had an ILCR above  $1 \times 10^{-6}$  or an HQ above 1.0. The current and future cumulative site ILCR to an occupational receptor based on the RME is  $3.9 \times 10^{-8}$ , well below  $1 \times 10^{-4}$ . Therefore, under current and anticipated future conditions, exposure to COPCs at TA-36-8 as a whole poses no potential significant carcinogenic risk (EPA, 1991b).

## J.3.3.4 General Uncertainties

The overriding uncertainties associated with the risk characterization are as follows:

- The extrapolation of toxic effects observed at the high doses necessary to conduct animal studies to effects that might occur at much lower, more realistic doses.
- The extrapolation from toxic effects in laboratory animals to toxic effects in humans (i.e., responses of animals may be different from responses of humans).
- Pathway analyses have been conservative and generally do not include fate and transport considerations (such as dispersion or adsorption) in the estimates.

Extrapolations from laboratory animal studies form the basis for the derivation of factors used to estimate risks. Uncertainties are taken into account when deriving RfDs and SFs. This risk assessment utilized EPA guidance in minimizing the uncertainties through the use of published standards and criteria to evaluate risks posed by chemicals measured at TA-36-8.

In addition to the general uncertainties listed above, the sources of uncertainty in characterizing risk at TA-36-8 include the following:

• Risk due to lead was not quantified. However, the maximum detected lead concentration in surface soil was 94 mg/kg. Most occupational preliminary remediation goals for lead are set at 1,000 mg/kg or higher (CEPA, 1996; EPA, 1996a). Therefore, lead is not of concern at TA-36-8.

Risk assessment is ultimately an integrated evaluation of historical, chemical, analytical, environmental, demographic, and toxicological data that are as site-specific as possible. To safeguard against the effects of uncertainty in the evaluation, each step is biased toward health protective estimations. Because each step builds on the previous one, this biased approach should more than compensate for risk assessment uncertainties. In addition, the calculations presented in

this risk assessment do not necessarily accurately represent currently existing or expected future exposure or health risks. Rather, they are estimates of potential risk only if all the conservative assumptions are realized.

## J.4 ECOLOGICAL RISK ASSESSMENT

The ecological risk assessment for TA-36-8 is a screening level assessment, which is defined here as a preliminary evaluation of potential ecological risks that incorporates limited site-specific data, conservative exposure assumptions, literature-obtained uptake models and transfer factors, and literature-obtained or -derived ecotoxicological benchmark values. It is used as an evaluation tool to determine what chemicals in the environment may present risk and establishes a basis for the collection of additional site-specific data should risks be predicted. This assessment follows the generally accepted tiered approach as recommended by EPA (EPA, 1992a; 1997; and 1998). A discussion of the site characteristics, fate and transport potential, and COPCs were presented in previous sections of this attachment. This section will briefly re-address some of these components as they relate to the problem formulation phase of the ecological risk assessment. Following the problem formulation, the analysis and risk characterization phases of the risk assessment process address the potential exposures of ecologically relevant receptors to chemicals of potential ecological concern (COPEC), the potential for these COPECs to cause toxic effects in the receptors, and the overall potential of the site to adversely affect the populations and the ecological community at and around TA-36-8.

#### J.4.1 Problem Formulation

Problem formulation is the first step of the ecological risk assessment process. It can be defined as a systematic planning step that identifies the major factors to be considered in a particular assessment (EPA, 1992a). In short, it establishes the goals, breadth, and focus of the assessment and is linked to the regulatory and policy context of the assessment. The problem formulation process begins with the initial stages of characterization exposure and ecological effects expected and observed. It describes the relationships among assessment and measurement endpoints, data requirements, and methodology that will be used to analyze the data. This section specifically addresses the ecology of the site (Section J.4.1.1), the conceptual model (Section J.4.1.2), the assessment and measurement endpoints used in the evaluation process (Section J.4.1.3), and the COPECs (Section J.4.1.4).

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#### J.4.1.1 Ecological Description

TA-36-8, an OD site, is located on Mesita del Potrillo in the southern part of LANL. The elevation at the TA-36-8 site is approximately 6,900 feet above mean sea level. The mesa is situated between Water Canyon and Pajarito Canyon. The canyons are defined by steep walls descending about 300 feet from the rim of the mesa. The soils in this area primarily consist of the Nyjack sandy loam. No wetlands or significant drainages occur on the site and the site is not within a 100-year floodplain. The following information is based on the report "Biological Assessment for Environmental Restoration Program; Operable Unit 1130; TAs 36, 68, and 71" (LANL, 1996).

The vegetation on Mesita del Potrillo is woodland, dominated by piñon pine (*Pinus edulis*) and oneseed juniper (*Juniperus monosperma*). The dominant shrubs in this habitat include oaks (*Quercus* spp.), mountain mahogany (*Cercocarpus montanus*), and squawbush (*Rhus trilobata*). Herbaceous understory plants include mountain muhly (*Muhlenbergia montana*), blue grama (*Bouteloua gracilis*), and bitterweed (*Hymenoxys richardsonii*). Seventy species of birds are either known or expected to occur in Operable Unit (OU) 1130, which contains the TA-36-8 OD site. Of these, 46 are known to breed. These include the American kestrel (*Falco sparverius*), great horned owl (*Bubo virginianus*), western kingbird (*Tyrannus vociferans*), common raven (*Corvus corax*), scrub jay (*Amphelocoma coerulescens*), American robin (*Turdus migritorius*), Grace's warbler (*Dendroica graciae*), rufoussided towhee (*Pipilo eurythrophthalamus*), and chipping sparrow (*Spizella passerina*). Mammalian wildlife species of the OU include mice (*Peromyscus and Reithrodontomys spp.*), woodrats (*Neotoma spp.*), pocket gophers (*Thomomys spp.*), chipmunks (*Eutamias spp.*), Abert's squirrel (*Sciurus aberti*), cottontails (*Sylvilagus spp.*), gray fox (*Urocyon cinereoargenteus*), coyote (*Canis latrans*), bobcat (*Felis rufus*), black bear (*Ursus americanus*), mule deer (*Odocoileus hemionus*), and elk (*Cervus elaphus*).

Twelve threatened, endangered, or sensitive (TES) plant species were evaluated for potential occurrence in OU 1130, but all were dismissed as unlikely due to habitat requirements or absence from vegetation survey records for Los Alamos County (LANL, 1996). Therefore, no TES plant species are expected to occur at TA-36-8. Nine TES wildlife species were evaluated for potential occurrence at this OU (LANL, 1996). These were the bald eagle (*Haliaeetus leucocephalus*), American peregrine falcon (*Falco peregrinus anatum*), northern goshawk (*Accipiter gentilis*), Mexican spotted owl (*Strix occidentalis lucida*), southwestern willow flycatcher (*Empidonax traillii extimus*), gray vireo (*Vireo vicinior*), Baird's sparrow (*Ammodramus bairdii*), spotted bat (*Euderma maculatum*), and a pulmonate snail (*Oreohelix* spp.). Of these, only the northern goshawk, spotted

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bat, and pulmonate snail warranted species-specific (Level 3) surveys. The following accounts describe the potential for each of these to occur at or be influenced by the TA-36-8 OD unit.

**Northern goshawk.** The optimal nesting habitat for northern goshawks is old-growth coniferous forests within about a quarter of a mile from water. Such habitats within the LANL boundary occur in upper canyons, higher and more moist than the habitats of OU 1130. The foraging range of the goshawk is approximately 5,400 acres (8.4 square miles), which (if circular) indicates a foraging distance of about 1.6 miles from the nest. Northern goshawks have not been recorded within the LANL boundary. Therefore, the potential for exposure to this species by chemical constituents at the TA-36-8 site is very small.

**Spotted bat.** Spotted bats occur in woodlands and forests, usually near standing water. They roost in rock crevices and may be associated with cliffs. Although some of these habitat features are found near OU 1130, mist-net surveys conducted in these areas have not recorded spotted bats. Therefore, its potential for occurrence at or near the TA-36-8 site is very small.

**Pulmonate snail.** The pulmonate snail identified as a TES species is not listed as either endangered or threatened. It is an isolated population found in TA-71. It is not known to occur in TA-36, and therefore, will not be affected by constituents at TA-36-8.

#### J.4.1.2 Conceptual Model

The conceptual model for the TA-36-8 ecological risk assessment is presented in Figure J-1. Exposure is essentially limited to terrestrial receptors due to the absence of significant drainage features. Surface water at the site is ephemeral and does not support aquatic or semi-aquatic wildlife. The potential for COPECs to be carried off site by these surface waters, and thereby reaching aquatic receptors, is considered to be a minor exposure pathway. The potential for brief contact between terrestrial receptors and on-site surface water is also considered to be a minor pathway.

## J.4.1.3 Endpoints

Endpoints for the TA-36-8 ecological risk assessment have been selected to be protective of the specific ecosystems and receptors associated with the area. Emphasis is placed on the terrestrial

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habitat associated with TA-36-8. Table J-8 presents the management goals, assessment endpoints, and measurement endpoints associated with this habitat.

#### J.4.1.4 Chemicals of Potential Ecological Concern

The identification of COPCs for TA-36-8 is presented in Section J.2. Because the process used in the selection of COPCs for this risk assessment is not risk-based and only involves comparison to background concentrations and frequency of detection, all COPCs identified in the human health risk assessment were also utilized as COPECs. All samples evaluated in this risk assessment were collected from within the upper 10 inches of soil and are considered to be surface soils. A few samples were associated with minor drainage features and labeled as "sediment." Because these drainage features are small and dry for most of the year (not supporting aquatic organisms), these samples were included with the soil sample data to evaluate potential risk to terrestrial receptors only. The COPECs identified in these samples are presented as COPCs in Table J-1.

#### J.4.2 Analysis

The analysis phase consists of the technical evaluation of data to reach conclusions about ecological exposure and the relationships between the stressors (COPECs) and ecological effects (EPA, 1998). This phase follows the problem formulation phase of the ecological risk assessment and addresses both potential exposure and potential toxic effects levels associated with the COPECs. The results of the analysis phase will feed directly into the risk characterization segment.

#### J.4.2.1 Exposure Assessment

The exposure assessment examines the exposure pathways and identifies potential ecological receptors. The methods used to quantify exposure are described in this section. Exposures to the selected receptors were only quantitatively estimated if a complete exposure pathway exists. Minor pathways, as shown in Figure J-1, were not evaluated.

#### J.4.2.2 Exposure Pathways

As presented in Figure J-1, ecological receptors can be exposed directly to soil contaminants associated with TA-36-8. Exposure can also occur through food-chain interactions. The most significant exposure pathways for terrestrial receptors are through direct contact by plants and ingestion by wildlife. Direct uptake of COPECs from soil was assumed to be the major route of exposure of plants to COPECs, with exposure of plants to wind-blown soil assumed to be minor.

Because of the shallow depths of sample collection (0 - 10 inches), all constituents were considered to be within the range of availability to plants, as supported by information on root depths in Reynolds and Fraley (1989).

Exposure modeling for the wildlife receptors was limited to the food ingestion pathway. Inhalation and dermal contact were considered insignificant pathways with respect to ingestion (Sample and Suter, 1994). Exposures for this screening-level assessment were modeled using an area use factor of 1, implying that all ingested food items and soil are from the site being investigated. Drinking water was considered an insignificant pathway because of the lack of permanent surface water at this site.

#### J.4.2.3 Ecological Receptors

Plants and wildlife were selected as indicators of potential risk to the terrestrial environment. A nonspecific perennial plant was used as the receptor to represent plant species at the site. The wildlife receptor species used to evaluate potential ecological risk at TA-36-8 were selected to represent the range of trophic levels that comprise the food web in the woodland habitats of this site, including herbivores, insectivores, omnivores, and carnivores. Preference was generally given to species identified as occurring in or near TA-36 (based on species lists in LANL, 1996). In general, smaller species within each of these groups were used to model food-chain transfers and exposures because they are likely to have smaller home ranges, and therefore, higher exposures to soil contaminants. Also, sizes and/or diets of the receptors were sometimes taken at the extremes of the potential range (e.g., the lowest individual body weight, or diets that are composed entirely of plant material, invertebrates, or small mammals) in order to provide estimates of exposure and risk that are not only protective of the majority of individuals of the receptor species, but also can be considered protective of other species within the trophic guild. The potential for TES species to be affected by COPEC exposure at this site was also considered. As discussed in Section J.4.1.1, only three TES wildlife species were identified as potentially occurring in OU 1130, none of which are likely to occur at TA-36-8.

Three small mammals were selected as potential receptors for this site. These are the vagrant shrew (*Sorex vagrans*), western harvest mouse (*Reithrodontomys megalotis*), and montane vole (*Microtus montanus*), which represent insectivorous, omnivorous, and herbivorous diets, respectively. It is not known whether shrews and voles exist at OU 1130 (LANL, 1996), but if they do, they are probably minor components of the mammalian community. The vole, however, might

represent other (larger) herbivorous mammals, such as rabbits and squirrels. The gray fox was selected as a carnivorous mammal, although it is typically omnivorous in food habits. Its modeled diet consisted primarily of mice and voles, but included small amounts of plants and invertebrates.

Two avian receptors were selected, representing insectivorous and carnivorous diets. The American kestrel was selected as the insectivorous bird and the Mexican spotted owl as the top avian predator. Although other large raptors have been identified as occurring in OU 1130 (e.g., the red-tailed hawk [*Buteo jamaicensis*] and the great horned owl [*Bubo virginianus*]) or potentially occurring there (e.g., the northern goshawk) (LANL, 1996), the Mexican spotted owl (a TES species) was selected to represent this guild because of its smaller body size and its feeding on terrestrial rather than aerial prey (in contrast to the peregrine falcon, another TES species of concern at LANL). Smaller owls that might occur in the area, such as the flammulated owl (*Otus flammeolus*), have more insectivorous diets than the Mexican spotted owl; therefore, risks to these species are represented by those to the American kestrel. Based on vegetation characteristics, however, the Mexican spotted owl (a threatened species) is not expected to occur at TA-36 (LANL, 1996). Potential habitat for this species does occur on other parts of LANL, making it a TES species of concern at LANL (LANL, 1997).

Table J-9 presents the species-specific parameters used to model exposures in each of these receptors.

#### J.4.2.4 Exposure Estimation

Because site-specific biological monitoring data were not available for TA-36-8, exposure concentrations were estimated through the use of models. The 95 percent UCL COPEC concentrations (which were all less than the maximum measured concentrations) from soil data were used to conservatively estimate potential exposures and risks to plants and wildlife at this site. Exposures to COPECs in the indicator wildlife species were estimated using the methods described in the EPA's "Wildlife Exposure Factors Handbook" (EPA, 1993).

In this screening assessment, only the dietary exposure pathway is considered. The inhalation and dermal contact pathways are considered to be insignificant pathways for COPECs in the soil. Although both of these pathways may lead to additional absorption of the COPECs, both are also linked to ingestion by the ingestion of soil particles that have been entrapped in the mucus lining of the nasal cavity and throat and the ingestion of soil through grooming. The absorption of COPECs

from soil particles directly through the lungs or skin is expected to be insignificant with respect to that from the daily dietary intake of soil. The drinking water ingestion pathway is also expected to be minor. Surface water in this area is ephemeral and extremely limited, allowing little opportunity for COPECs to accumulate in the water, or for ingestion by or contact with wildlife.

The basic equation for estimating dose through the dietary pathway is:

$$D_p = \sum_{k=1}^m (C_k \cdot F_k \cdot I_k)/W$$

where:

 $D_p$  = the potential average daily dose (mg/kg-day).

 $C_k$  = the average COPEC concentration in the k<sup>th</sup> food type (mg/kg dry weight).

 $F_k$  = the fraction of the k<sup>th</sup> food type that is contaminated.

 $I_k$  = the ingestion rate of the k<sup>th</sup> food type (kg dry weight/day).

W = the body weight of the receptor (kg wet weight).

Natural history data used in modeling the exposure in each of the wildlife receptor species include the average or midpoint body weight, the total ingestion rate, and the fraction of the diet composed of various food types. For screening purposes, the calculation of  $C_k$  is based on the 95 percent UCL soil concentration. The food items of a particular type are considered to be equally contaminated throughout the entire home range of the receptor; therefore,  $F_k$  is 1.

Estimates of the concentrations of COPECs in food organisms (plants, invertebrates, and small mammals) were made using the chemical-specific concentrations in soil from TA-36-8. These estimates were made either through linear models that use organism-specific transfer factors or from empirically derived nonlinear models. In the former case, the model is of the form:

$$C_o = (C_m)(TF_{m,o})$$

where:

 $C_{\circ}$  = the concentration of the COPEC in the target organism (mg/kg, dry weight).

 $C_m$  = the concentration of the COPEC in an external medium (mg/kg, dry weight).

 $TF_{m,o}$  = the medium-to-organism transfer factor (unitless).

For modeling concentrations in plants and invertebrates, the external medium was soil. For small mammals, the external medium was food (plants and/or invertebrates, plus incidentally ingested soil). Table J-10 presents the transfer factors used in this model.

Transfer coefficients for organic COPEC concentrations in plants were estimated using the equation derived by Travis and Arms (1988), which is based on the linear regression of the logarithm (log) of the octanol/water partition coefficient ( $K_{ow}$ ) and the log of analytically derived soil-to-plant bioconcentration factors. A similar regression on the log  $K_{ow}$  values was used to derive an equation for estimating the transfer factors for organic COPECs for small mammals based on data presented in Garten and Trabalka (1983).

For organic COPECs in invertebrates, the soil-to-organism transfer factors were based on the following equation derived by Connell and Markwell (1990) for modeling uptake by earthworms:

$$TF_{s,w} = \frac{y_L \cdot K_{ow}^{b-a}}{x \cdot f_{oc}}$$

where:

 $TF_{s,w}$  = the soil-to-earthworm transfer factor (unitless).

 $y_L$  = the fractional lipid content of the organism.

K<sub>ow</sub> = the octanol/water partition coefficient.

(b-a) = a nonlinearity constant.

x = a proportionality constant.

 $f_{oc}$  = the fractional organic carbon content in the soil.

Based on average values for earthworms presented by Connell and Markwell (1990), the values for the nonlinearity constant (0.05), proportionality constant (0.66), and fractional lipid content (0.84 percent) were applied in this model. The organic carbon content of the soil at TA-36-8 was estimated at 1 percent, based on an average organic matter content of 21 Southern Great Plains soils (1.55 percent) divided by an average organic-matter to organic-carbon ratio of 1.7 (Brady, 1974), and rounding the result (0.91 percent) to the nearest whole percentage. Because TA-36-8 can be quite dry during portions of the year, insects and other arthropods are probably more available invertebrate prey items at the site than earthworms. It is expected, however, that the uptake of COPECs by earthworms will generally be greater than that of insects because of their

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closer contact with the soil, differences in integument, and direct ingestion of soil particles and detritus. Therefore, these transfer factors are expected to yield conservative estimates of insect uptake.

The empirically-derived nonlinear models for COPEC uptake by plants, invertebrates (earthworms), and small mammals are of the form:

$$C_o = e^{b_0} C_s^{b_1}$$

where:

 $C_{o}$  = the concentration of the COPEC in the target organism (mg/kg, dry weight).

 $C_s$  = the concentration of the COPEC in soil (mg/kg, dry weight).

 $b_0$  and  $b_1$  = empirically derived model parameters (unitless).

e = the base of natural logarithms (approximately 2.7183).

For plants, earthworms, and small mammals, the sources of  $b_0$  and  $b_1$  were Bechtel Jacobs Company (1998), Sample et al. (1998a), and Sample et al. (1998b), respectively. Of the COPECs for TA-36-8, nonlinear uptake models were only available for copper and lead. The values for  $b_0$  and  $b_1$  are presented in Table J-11.

## J.4.2.5 Effects Characterization

The second major component of the analysis phase is to obtain information on the toxicity of the specific COPECs to the ecological receptors. Toxicity information is compiled into a form that makes it comparable to soil concentrations or to intake rates. These values are referred to as benchmark screening values.

General information on the chronic toxicity of inorganic and organic compounds to vascular plants was primarily obtained from Efroymson et al. (1997). These benchmark values are based on lowest-observed-adverse-effect-levels (LOAEL) and are presented in Table J-12.

No-observed-adverse-effect-levels (NOAEL) for chronic oral exposure were used as benchmarks for toxic effects to wildlife (Table J-12). Because the NOAELs for the indicator wildlife species are based on NOAELs from test species, the latter were converted to NOAELs specific to indicator species using a power function of the ratio of body weights, as described by Sample et al. (1996).

$$NOAEL_W = \frac{J-23}{NOAEL_T} \left(\frac{BW_T}{BW_W}\right)^s$$

Thus:

where:

| NOAEL <sub>w</sub> | = | the no-observed-adverse-effect-level for the wildlife indicator species (mg/kg-day). |  |  |  |  |  |  |  |  |
|--------------------|---|--------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| NOAELT             | = | the no-observed-adverse-effect-level for the test species (mg/kg-day).               |  |  |  |  |  |  |  |  |
| BW⊤                | = | the body weight of the test species (kg).                                            |  |  |  |  |  |  |  |  |
| BWw                | = | the body weight of the wildlife indicator species (kg).                              |  |  |  |  |  |  |  |  |
| S                  | = | a body weight scaling factor.                                                        |  |  |  |  |  |  |  |  |

The body weight scaling factors(s) are based on an evaluation of toxicity data by Sample and Arenal (1999) in which the average values of "s" were found to be 0.06 for mammals and -0.2 for birds.

When only subchronic oral NOAEL values were available, these were converted to chronic NOAEL values by applying an uncertainty factor of 0.1 (Sample et al., 1996). Similarly, when only chronic LOAEL values were available for test species, an uncertainty factor of 0.1 was used to convert these to NOAELs. In cases where only an acute toxicity value was available for a specific COPEC (e.g., a lethal dose to 50 percent of the test population  $[LD_{50}]$ ) but both a NOAEL and  $LD_{50}$  value were available for a closely related compound in the same test species, the NOAEL for the COPEC was estimated using the relationship from Sample et al. (1996):

$$NOAEL_{TX} = LD_{50TX} \left( \frac{NOAEL_{TY}}{LD_{50TY}} \right)$$

where,

| NOAEL <sub>TX</sub> | = | the no-observed-adverse-effect-level for COPEC X in test species T (mg/kg-day).                                 |
|---------------------|---|-----------------------------------------------------------------------------------------------------------------|
| LD <sub>50TX</sub>  | = | the acute lethal dose to 50 percent of the test population of test species T for COPEC X (mg/kg).               |
| NOAEL <sub>TY</sub> | = | the no-observed-adverse-effect-level for compound Y (closely related to COPEC X) in test species T (mg/kg-day). |
| LD <sub>50TY</sub>  | = | the acute lethal dose to 50 percent of the test population of test species T for compound Y.                    |

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#### J.4.3 Risk Characterization

Ecological risks for the terrestrial biota associated with TA-36-8 were assessed by comparison of predicted exposure to benchmark toxicity values as HQ. The HQ is the ratio of the estimated exposure to the benchmark value for each COPEC and receptor pair. Table J-13 presents the HQs for TA-36-8. HQ values greater than 1 indicate potential risk based on the conservative assumptions used in the exposure models. HQs greater than 1 were predicted for the vagrant shrew, harvest mouse, and montane vole exposed to 2,4-dinitrotoluene; for the montane vole exposed to HMX; for the American kestrel exposed to di-n-butyl phthalate; and for the Mexican spotted owl exposed to bis-2-ethylhexyl phthalate. The maximum HQ was 12.3 (for the montane vole exposed to 2,4-dinitrotoluene).

#### J.4.4 Uncertainties and Conclusions

Many uncertainties are associated with the characterization of ecological risks at TA-36-8. These uncertainties result in the use of assumptions in estimating risk that may lead to an overestimation or underestimation of the true risk presented at a site. For this screening level risk assessment, assumptions are made that are more likely to overestimate risk rather than to underestimate it. These conservative assumptions are used to be more protective of the ecological resources potentially affected by the site. Conservatisms incorporated into this risk assessment include the use of the 95 percent UCL soil concentration to evaluate risk, the use of wildlife toxicity benchmarks based on NOAEL values, the use of earthworm-based transfer factors or a default factor of 1.0 for modeling COPECs into soil invertebrates, the assumption that the COPECs at this site are 100 percent bioavailable, and the use of 1.0 as the area use factor for wildlife receptors regardless of seasonal use or home range size.

Although potential ecological risks were predicted by the HQs that exceeded unity (shown in Table J-13), the conservatisms described above that were used in the calculation of the HQs indicate that the actual ecological risks presented by the COPECs at this site are probably lower than those indicated by the HQs. Based on the equation from Peters (1993), the home ranges of carnivorous birds the sizes of the American kestrel and Mexican spotted owl are 101 and 832 acres, respectively, which significantly exceed the area of TA-36-8. Thus the area use factor (i.e.,  $F_k$ ) of 1 is expected to exaggerate risk to these species. Furthermore, in the case of the Mexican spotted owl, the NOAEL value for bis-2-ethylhexyl phthalate (the only COPEC to produce an HQ greater than 1) is based on a single-dose study, with no adverse effect being found from the single dose

(Sample et al., 1996). Therefore, the actual threshold for avian toxicity may be much greater than this NOAEL.

Based on the combined effects of conservatisms used to calculate the HQs for this site and the fact that all but one of the HQs were less than 10 (the exception being 12.3), it is unlikely that this site poses a significant risk to receptor populations at the site or to the ecological community at and around the site. Predicted potential risk to the Mexican spotted owl was limited to exposure to bis-2-ethylhexyl phthalate, with an HQ of only 3.4. The Mexican spotted owl was the only TES species directly evaluated in this assessment, but because it and other TES species are unlikely to occur at TA-36-8, none of these HQs apply directly to TES species. The Mexican spotted owl was used here to conservatively represent large predatory birds. Overall, ecological risks at the site are expected to be low.

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# Table J-1Surface Soil Sampling ResultsLANL Technical Area 36-8(all concentrations in ppm<sup>a</sup>)

| Chemical of Potential | N  | Number        | Minimum | Maximum | Mean  | Standard  | 95 %  | 95%   | Background | Chemical | Reason           |
|-----------------------|----|---------------|---------|---------|-------|-----------|-------|-------|------------|----------|------------------|
| Concern               |    | Of<br>Detecto |         |         |       | Deviation | UCL   | UIL   | 95% UTL    | Of       | for<br>Evolution |
|                       |    | Detects       |         |         |       |           |       |       |            | Concern  | Exclusion        |
| Inorganics            |    |               |         |         |       |           |       |       |            |          |                  |
| Aluminum              | 77 | 77            | 1790    | 67800   | 35108 | 25533     | 40903 | 85446 | 123000     | No       | d                |
| Antimony              | 31 | 1             | 2.50    | 4.11    | 3.41  | 0.55      | 3.61  | 4.62  | 2.5        | No       | е                |
| Arsenic               | 31 | 4             | 0.32    | 1.40    | 0.60  | 0.29      | 0.71  | 1.23  | 11.6       | No       | d                |
| Barium                | 77 | 76            | 18      | 885     | 359   | 235       | 413   | 823   | 1140       | No       | d                |
| Beryllium             | 77 | 56            | 0.19    | 4.40    | 1.41  | 0.95      | 1.63  | 3.28  | 3.31       | No       | d                |
| Cadmium               | 31 | 1             | 0.185   | 0.550   | 0.231 | 0.066     | 0.255 | 0.376 | 2.7        | No       | d                |
| Calcium               | 31 | 28            | 307     | 5770    | 2047  | 1202      | 2488  | 4700  | 54400      | No       | d                |
| Chromium              | 31 | 28            | 0.85    | 9.90    | 5.24  | 2.39      | 6.11  | 10.5  | 34.2       | No       | d                |
| Cobalt                | 31 | 1             | 0.85    | 6.10    | 2.14  | 1.01      | 2.52  | 4.38  | 51.1       | No       | d                |
| Copper                | 77 | 67            | 1.05    | 272     | 44    | 57        | 57    | 157   | 15.7       | Yes      |                  |
| Iron                  | 77 | 77            | 9.20    | 23000   | 13377 | 4638      | 14429 | 22520 | 35600      | No       | d                |
| Lead                  | 77 | 77            | 0.25    | 94      | 27    | 19        | 31    | 63.9  | 39.0       | Yes      |                  |
| Magnesium             | 31 | 20            | 194     | 2820    | 1085  | 689       | 1338  | 2607  | 16100      | No       | d                |
| Manganese             | 31 | 31            | 184     | 464     | 301   | 61        | 323   | 434   | 1030       | No       | d                |
| Nickel                | 31 | 8             | 1.00    | 9.70    | 3.59  | 2.25      | 4.42  | 8.55  | 26.7       | No       | d                |
| Potassium             | 31 | 23            | 258     | 2740    | 1220  | 642       | 1455  | 2638  | 6180       | No       | d                |
| Thallium              | 31 | 1             | 0.13    | 1.24    | 0.51  | 0.27      | 0.61  | 0.740 | 0.9        | No       | d                |
| Vanadium              | 31 | 19            | 2.75    | 25.7    | 11.66 | 6.98      | 14.2  | 27.1  | 66         | No       | d                |
| Zinc                  | 31 | 31            | 18.0    | 41.7    | 29.0  | 7.27      | 31.7  | 45.0  | 101        | No       | d                |
| Explosives            |    |               |         |         |       |           |       |       |            |          |                  |
| HMX                   | 76 | 24            | 0.082   | 3.90    | 0.41  | 0.66      | 0.56  | NA    | NA         | Yes      |                  |
| RDX                   | 76 | 8             | 0.035   | 21      | 0.74  | 3.35      | 1.51  | NA    | NA         | Yes      |                  |
| TNT                   | 76 | 4             | 0.040   | 5.60    | 0.274 | 0.728     | 0.440 | NA    | NA         | Yes      |                  |
| 2,4-Dinitrotoluene    | 76 | 18            | 0.027   | 207     | 5.6   | 28        | 12    | NA    | NA         | Yes      |                  |
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# Table J-1 (Continued)Surface Soil Sampling ResultsLANL Technical Area 36-8(all concentrations in ppm<sup>a</sup>)

| Chemical of Potential<br>Concern | Ν    | Number<br>of | Minimum | Maximum | Mean  | Standard<br>Deviation | 95 %<br>UCL <sup>⋼</sup> | 95%<br>UTL <sup>°</sup> | Background<br>95% UTL | Chemical<br>of | Reason<br>for |
|----------------------------------|------|--------------|---------|---------|-------|-----------------------|--------------------------|-------------------------|-----------------------|----------------|---------------|
|                                  |      | Detects      |         |         |       |                       |                          |                         |                       | Concern        | Exclusion     |
| VOCs                             | VOCs |              |         |         |       |                       |                          |                         |                       |                |               |
| Acetone                          | 31   | 5            | 0.005   | 0.52    | 0.028 | 0.0917                | 0.0616                   | NA                      | NA                    | Yes            |               |
| Methylene Chloride               | 31   | 9            | 0.0025  | 0.13    | 0.011 | 0.0225                | 0.018                    | NA                      | NA                    | Yes            |               |
| 4-Methyl-2-Pentanone             | 31   | 1            | 0.01    | 0.05    | 0.012 | 0.0072                | 0.015                    | NA                      | NA                    | No             | е             |
| Toluene                          | 31   | 3            | 0.0025  | 0.028   | 0.004 | 0.0049                | 0.006                    | NA                      | NA                    | Yes            |               |
| Trichloroethene                  | 31   | 3            | 0.0025  | 0.11    | 0.009 | 0.0203                | 0.016                    | NA                      | NA                    | Yes            |               |
| 1,2,4-Trimethylbenzene           | 31   | 3            | 0.0025  | 0.12    | 0.011 | 0.0252                | 0.020                    | NA                      | NA                    | Yes            |               |
| Xylene(s)                        | 31   | 3            | 0.0025  | 0.143   | 0.011 | 0.0281                | 0.021                    | NA                      | NA                    | Yes            |               |
| SVOCs <sup>9</sup>               |      |              |         |         |       |                       |                          |                         |                       |                |               |
| Bis-2-ethylhexyl phthalate       | 77   | 16           | 0.165   | 23.9    | 1.29  | 3.69                  | 2.13                     | NA                      | NA                    | Yes            |               |
| Di-n-butyl phthalate             | 77   | 12           | 0.165   | 20.0    | 1.26  | 3.28                  | 2.23                     | NA                      | NA                    | Yes            |               |
| 2,4-Dinitrotoluene               | 77   | 10           | 0.165   | 48.3    | 1.54  | 6.10                  | 2.92                     | NA                      | NA                    | Yes            |               |
| 2,6-Dinitrotoluene               | 77   | 2            | 0.165   | 2.10    | 0.242 | 0.25                  | 0.30                     | NA                      | NA                    | No             | е             |
| N-Nitrosodiphenylamine           | 77   | 6            | 0.165   | 5.80    | 0.357 | 0.71                  | 0.52                     | NA                      | NA                    | Yes            |               |
| Phenanthrene                     | 77   | 1            | 0.165   | 1.40    | 0.239 | 0.19                  | 0.28                     | NA                      | NA                    | No             | е             |

<sup>a</sup> ppm = parts per million.

<sup>b</sup> UCL = Upper Confidence Limit.

<sup>c</sup> UTL = Upper Tolerance Limit.

<sup>d</sup> Not a chemical of potential concern; on-site concentrations are less than background.

<sup>e</sup> Not a chemical of potential concern; based on frequency of detection.

<sup>f</sup> VOCs = volatile organic compounds.

<sup>g</sup> SVOCs = semivolatile organic compounds.

N Number of samples.

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### Table J-2 Air Quality Modeling Summary LANL Technical Area 36-8

| Chemical of Potential Concern<br>Road (800 m NNE) <sup>a</sup> |                                           | Air Concentrations at White Rock<br>(2980 m ESE) <sup>b</sup> | Ambient Air Quality Standard |
|----------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|------------------------------|
| Carbon Monoxide (1-hour average)                               | 0.16 mg/m³°                               | 0.02 mg/m³°                                                   | 2.0 mg/m³ <sup>c</sup>       |
| Sulfur Dioxide (24-hour average)                               | 0.054 ug/m³₫                              | 0.02 ug/m³ d                                                  | 5.0 ug/m³₫                   |
| Lead (3-month average)                                         | 4.3 x 10 <sup>-</sup> ug/m <sup>3 d</sup> | 1.6 x 10 <sup>-6</sup> ug/m³ <sup>d</sup>                     | 1.5 ug/m³₫                   |

а m NNE = meters north northeast

b m ESE = meters east southeast

С

 $mg/m^3$  = milligrams per cubic meter µg/m<sup>3</sup> = micrograms per cubic meter d

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#### Table J-3

#### Potentially Complete Human Exposure Pathways at LANL Technical Area 36-8

| Environmental<br>Medium | Exposure Route                            | Potentially Exposed<br>Population           | Pathway<br>Selected for<br>Evaluation | Reason for Selection or Exclusion                                                                                                                                                                                                                                      |
|-------------------------|-------------------------------------------|---------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface Soil            | Inhalation<br>Ingestion<br>Dermal Contact | Residential<br>Recreational                 | No                                    | No current or future on-site residents or recreational users at TA-36-8.                                                                                                                                                                                               |
| Surface Soil            | Inhalation<br>Ingestion<br>Dermal Contact | Occupational                                | Yes                                   | Potential intermittent occupational exposure is likely under current and future operating conditions.                                                                                                                                                                  |
| Surface Water           | Inhalation<br>Ingestion<br>Dermal Contact | Residential<br>Recreational                 | No                                    | No current or future on-site residents or recreational users at TA-36-8.                                                                                                                                                                                               |
| Surface Water           | Ingestion<br>Dermal Contact               | Occupational                                | No                                    | Potential intermittent occupational contact with<br>surface water is unlikely. At TA-36-8 there is no<br>permanent on-site surface water (all surface<br>water is due to runoff).                                                                                      |
| Air <sup>a</sup>        | Inhalation                                | Occupational                                | Yes                                   | Air modeling calculated COPC <sup>b</sup> air concentrations to a potential occupational receptor.                                                                                                                                                                     |
| Groundwater             | Inhalation<br>Ingestion<br>Dermal Contact | Residential<br>Recreational<br>Occupational | No                                    | No current groundwater use at TA-36-8 and there is no projected groundwater use at TA-36-8.                                                                                                                                                                            |
| Subsurface Soil         | Inhalation<br>Ingestion<br>Dermal Contact | Residential<br>Recreational<br>Occupational | No                                    | Limited subsurface soil analytical information<br>was available for TA-36-8. However, due to the<br>activities which occur at the site (waste<br>detonations), surface soil is the only media of<br>concern. Surface soil COPC are expected to be<br>the risk drivers. |

<sup>a</sup> Air refers specifically to evaluating exposure using air modeled data. Potential exposure by inhalation to constituents from other media (e.g., soil) is presented with those media.

<sup>b</sup> Chemicals of potential concern.

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#### Table J-4 Exposure Parameters

| Parameter                                        | Value                | Units                  | Reference/Rationale                                                                                                    |
|--------------------------------------------------|----------------------|------------------------|------------------------------------------------------------------------------------------------------------------------|
| C                                                | OCCUPATION/          | L INGESTION            | OF SOIL                                                                                                                |
| Ingestion Rate                                   | 50                   | mg/day                 | EPA, 1991                                                                                                              |
| Fraction Ingested                                | 1                    | unitless               | Assumes all of soil intake from site                                                                                   |
| Exposure Frequency                               | 24                   | day/year               | Maximum allowable time spent on site (including detonation activities)                                                 |
| Exposure Duration                                | 25                   | years                  | EPA, 1991                                                                                                              |
| Body Weight                                      | 70                   | kg                     | EPA, 1991                                                                                                              |
| Averaging Time:                                  |                      |                        | EPA, 1989                                                                                                              |
| Carcinogens                                      | 25,550               | days                   |                                                                                                                        |
| Noncarcinogens                                   | 9,125                | days                   |                                                                                                                        |
| OCCU                                             | PATIONAL DE          | RMAL CONTAC            | CT WITH SOIL                                                                                                           |
| Adherence Factor                                 | 1.0                  | mg/cm <sup>2</sup>     | EPA, 1992                                                                                                              |
| Absorption Fraction                              | chemical<br>specific | unitless               | EPA, 1992                                                                                                              |
| Skin Surface Area                                | 5,000                | cm <sup>2</sup> /event | EPA, 1992                                                                                                              |
| Exposure Frequency                               | 24                   | day/year               | Maximum allowable time spent on site (including detonation activities)                                                 |
| Exposure Duration                                | 25                   | years                  | EPA, 1991                                                                                                              |
| Body Weight                                      | 70                   | kg                     | EPA, 1991                                                                                                              |
| Averaging Time:<br>Carcinogens<br>Noncarcinogens | 25,550<br>9,125      | days<br>days           | EPA, 1989                                                                                                              |
| OCCUPATIONAL INHA                                | LATION OF D          | JST AND MODE           | LED AIR CONCENTRATIONS                                                                                                 |
| Inhalation Rate                                  | 20                   | m³/day                 | EPA, 1991                                                                                                              |
| Exposure Frequency                               | 24250                | day/year               | Maximum allowable time spent on<br>site (including detonation<br>activities)EPA, 1991a (modeled air<br>concentrations) |
| Exposure Duration                                | 25                   | years                  | EPA, 1991                                                                                                              |
| Body Weight                                      | 70                   | kg                     | EPA, 1991                                                                                                              |
| Averaging Time:<br>Carcinogens<br>Noncarcinogens | 25,550<br>9,125      | days<br>days           | EPA, 1989                                                                                                              |

cm<sup>2</sup> = square centimeter(s) kg = kilogram(s) L = liter(s)  $m^{3}/day = cubic meter(s) per day$ 

mg/cm<sup>2</sup> = milligram(s) per square centimeter(s) mg/day = milligram(s) per day

U.S. Environmental Protection Agency (EPA), 1991, "Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors," Memorandum, *OSWER Directive 9285.6-03*, Office of Solid Waste and Emergency Response, Washington, D.C.

U.S. Environmental Protection Agency (EPA), 1989, "Risk Assessment Guidance for Superfund" (RAGS), Vol. I, Human Health Evaluation Manual (Part A), *OSWER Directive 9285.7-01A*, Office of Emergency and Remedial Response, Washington, D.C.

U.S. Environmental Protection Agency (EPA), 1992, "Dermal Exposure Assessment: Principles and Applications," Interim Report, *EPA/600/8-01/011B*, Exposure Assessment Group, Office of Health and Environmental Assessment, Washington, D.C.

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# Table J-5Human Toxicity Factors Used forChemicals of Potential Concern at LANLTechnical Area 36-8<sup>a</sup>

|                                  | Reference                 | e Doses                   | Slope                             |                                         |              |
|----------------------------------|---------------------------|---------------------------|-----------------------------------|-----------------------------------------|--------------|
| Chemical of Potential<br>Concern | Oral<br>(mg/kg-day)       | Inhalation<br>(mg/kg-day) | Oral<br>(mg/kg-day) <sup>-1</sup> | Inhalation<br>(mg/kg-day) <sup>-1</sup> | Cancer Class |
| 1,2,4-Trimethylbenzene           | ND                        | ND                        | ND                                | ND                                      | ND           |
| 2,4-Dinitrotoluene               | 2.0 x 10 <sup>-03</sup>   | ND                        | ND                                | ND                                      | ND           |
| Acetone                          | 1.0 x 10 <sup>-01</sup>   | ND                        | NA                                | NA                                      | D            |
| Bis-2-ethylhexyl phthalate       | 2.0 x 10 <sup>-02</sup>   | ND                        | 1.4 x 10 <sup>-02</sup>           | ND                                      | B2           |
| Copper                           | 3.7 x 10 <sup>-02</sup> H | ND                        | NA                                | NA                                      | D            |
| Di-n-butylphthalate              | 1.0 x 10 <sup>-01</sup>   | ND                        | NA                                | NA                                      | D            |
| HMX                              | 5.0 x 10 <sup>-02</sup>   | ND                        | NA                                | NA                                      | D            |
| Lead                             | ND                        | ND                        | ND                                | ND                                      | B2           |
| Methylene Chloride               | 6.0 x 10 <sup>-02</sup>   | 8.6 x 10 <sup>-01</sup>   | 7.5 x 10 <sup>-03</sup>           | 1.6 x 10 <sup>-03</sup>                 | B2           |
| N-nitrosodiphenylamine           | ND                        | ND                        | 4.9 x 10 <sup>-03</sup>           | ND                                      | B2           |
| RDX                              | 3.0 x 10 <sup>-03</sup>   | ND                        | 1.1 x 10 <sup>-01</sup>           | ND                                      | С            |
| Toluene                          | 2.0 x 10 <sup>-01</sup>   | 1.1 x 10 <sup>-01</sup>   | NA                                | NA                                      | D            |
| TNT                              | 5.0 x 10 <sup>-04</sup>   | ND                        | 3.0 x 10 <sup>-02</sup>           | ND                                      | С            |
| Trichloroethene                  | 6.0 x 10 <sup>-03</sup> N | ND                        | 1.1 x 10 <sup>-02</sup> N         | 6.0 x 10 <sup>-03</sup> N               | B2           |
| Xylene(s)                        | 2.0 x 10 <sup>+00</sup>   | ND                        | NA                                | NA                                      | D            |

<sup>a</sup> All toxicity values from Integrated Risk Information System (IRIS) unless otherwise stated (EPA, 1999).

ND = No data available to establish toxicity factor.

NA = Not considered to be carcinogenic to humans (EPA, 1999).

H = Toxicity value from the Health Effects Assessment Summary Tables (HEAST) (EPA, 1997).

N = Toxicity value from National Center for Environmental Assessment.

mg/kg-day = milligrams per kilogram per day

(mg/kg-day) = recipical of milligrams per kilogram per day

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# Table J-6Estimated Daily Intakes and Incremental Lifetime CancerRisks (ILCR) for LANL Technical Area 36-8

| Potentially Exposed<br>Population | Exposure Pathway                | Chemical                                                                                                             | Estimated<br>Intake<br>(mg/kg-day)                             | ILCR                                                                                 |
|-----------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Occupational                      | Incidental Ingestion of<br>Soil | Bis-2-ethylhexyl phthalate<br>Methylene Chloride<br>N-Nitrosodiphenylamine<br>RDX<br>TNT<br>Trichloroethene<br>Total | 3.6E-08<br>3.0E-10<br>8.7E-09<br>2.5E-08<br>7.4E-09<br>2.7E-10 | 5.0E-10<br>2.3E-12<br>4.3E-11<br>2.8E-09<br>2.2E-10<br>3.0E-12<br>3.6E-09            |
| Occupational                      | Dermal Contact with<br>Soil     | Bis-2-ethylhexyl phthalate<br>Methylene Chloride<br>N-Nitrosodiphenylamine<br>RDX<br>TNT<br>Trichloroethene<br>Total | 3.6E-07<br>3.0E-09<br>8.7E-08<br>2.5E-07<br>7.4E-08<br>2.7E-09 | 5.0E-03<br>5.0E-09<br>2.3E-11<br>4.3E-10<br>2.8E-08<br>2.2E-09<br>3.0E-11<br>3.6E-08 |
| Occupational                      | Inhalation of Fugitive<br>Dust  | Methylene Chloride<br>Trichloroethene<br>Total                                                                       | 3.5E-13<br>3.1E-13                                             | 5.7E-16<br>1.9E-15<br>2.5E-15                                                        |
| Occupational                      | Inhalation of Air<br>(modeled)  | No carcinogenic chemi                                                                                                | cals of potential                                              | concern                                                                              |

mg/kg-day = milligrams per kilogram per day

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# Table J-7Estimated Daily Intakes and Hazard Quotients (HQ)for LANL Technical Area 36-8

| Potentially Exposed<br>Population | Exposure Pathway                | Chemical                                                                                                                                                                                    | Estimated<br>Intake<br>(mg/kg-<br>day)                                                                                           | HQ                                                                                                                                          |
|-----------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational                      | Incidental Ingestion of<br>Soil | 2,4-Dinitrotoluene<br>Acetone<br>Bis-2-ethylhexyl phthalate<br>Copper<br>Di-n-butylphthalate<br>HMX<br>Methylene Chloride<br>RDX<br>TNT<br>Toluene<br>Trichloroethene<br>Xylene(s)<br>Total | 5.6E-07<br>2.9E-09<br>1.0E-07<br>2.7E-06<br>1.0E-07<br>2.6E-08<br>8.5E-10<br>7.1E-08<br>2.1E-08<br>2.8E-10<br>7.5E-10<br>9.9E-10 | 2.8E-04<br>2.9E-08<br>5.0E-06<br>7.2E-05<br>1.0E-06<br>5.3E-07<br>1.4E-08<br>2.4E-05<br>4.1E-05<br>1.4E-09<br>1.3E-07<br>4.9E-10<br>6.3E-04 |
| Occupational                      | Dermal Contact with<br>Soil     | 2,4-Dinitrotoluene<br>Acetone<br>Bis-2-ethylhexyl phthalate<br>Copper<br>Di-n-butylphthalate<br>HMX<br>Methylene Chloride<br>RDX<br>TNT<br>Toluene<br>Trichloroethene<br>Xylene(s)<br>Total | 5.6E-06<br>2.9E-08<br>1.0E-06<br>2.7E-06<br>1.0E-06<br>2.6E-07<br>8.5E-09<br>7.1E-07<br>2.1E-07<br>2.8E-09<br>7.5E-09<br>9.9E-10 | 2.8E-03<br>2.9E-07<br>5.0E-05<br>7.2E-05<br>1.0E-05<br>5.3E-06<br>1.4E-07<br>2.4E-04<br>4.1E-04<br>1.4E-08<br>1.3E-06<br>4.9E-10<br>3.8E-03 |
| Occupational                      | Inhalation of Fugitive<br>Dust  | Methylene Chloride<br>Toluene<br>Total                                                                                                                                                      | 9.9E-13<br>3.3E-13                                                                                                               | 1.2E-12<br>3.0E-12<br>4.2E-12                                                                                                               |
| Occupational                      | Inhalation of Air<br>(modeled)  | No noncarcinogenic chemi                                                                                                                                                                    | cals of potentia                                                                                                                 | al concern                                                                                                                                  |

mg/kg-day = milligrams per kilogram per day

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### Table J-8 Endpoints for the LANL Technical Area 36-8 Ecological Risk Assessment

|   | Management Goal                                             | Assessment Endpoint                                              | Measurement Endpoint                                                                          |
|---|-------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| • | Protection of the natural plant and animal diversity of the | • Toxicity of soil to plants                                     | <ul> <li>Comparison of soil chemistry data with<br/>phytotoxicity benchmark values</li> </ul> |
|   | woodland ecosystems of TA-36                                | <ul> <li>Toxicity of soil to terrestrial<br/>wildlife</li> </ul> | Quotient Method                                                                               |

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## Table J-9Data Used to Model Exposure in the Terrestrial Wildlife SpeciesLANL Technical Area 36-8

| Indicator Species           | Class/Order   | Body Weightª<br>(kg) | Dietary Intake <sup>♭</sup><br>(kg[dw]/day) | Trophic Level | Dietary Compo      | sition <sup>°</sup> (percent) |
|-----------------------------|---------------|----------------------|---------------------------------------------|---------------|--------------------|-------------------------------|
| Vagrant shrew               | Mammalia/     | 0.0060               | 0.00102                                     | Insectivore   | Soil: 13           |                               |
| (Sorex vagrans)             | Insectivora   |                      |                                             |               | Invertebrates: 100 |                               |
| Western harvest mouse       | Mammalia/     | 0.0104               | 0.00233                                     | Omnivore      | Soil: 2            | Invertebrates: 50             |
| (Reithrodontomys megalotis) | Rodentia      |                      |                                             |               | Plants: 50         |                               |
| Montane vole                | Mammalia/     | 0.0291               | 0.00669                                     | Herbivore     | Soil: 2            |                               |
| (Microtus montanus)         | Rodentia      |                      |                                             |               | Plants: 100        |                               |
| Gray fox                    | Mammalia/     | 2.5                  | 0.146                                       | Omnivore-     | Soil: 2.8          | Mice: 40                      |
| (Urocyon cinereoargenteus)  | Carnivora     |                      |                                             | Carnivore     | Plants: 13         | Voles: 40                     |
|                             |               |                      |                                             |               | Invertebrates: 7   |                               |
| American kestrel            | Aves/         | 0.111                | 0.0139                                      | Insectivore   | Soil: 2            |                               |
| (Falco sparverius)          | Falconiformes |                      |                                             |               | Invertebrates: 100 |                               |
| Mexican spotted owl         | Aves/         | 0.518                | 0.0379                                      | Carnivore     | Soil: 2            | Mice: 50                      |
| (Strix occidentalis lucida) | Strigiformes  |                      |                                             |               | Shrews: 25         | Voles: 25                     |

<sup>a</sup> From Silva and Downing (1995) for mammals, and Dunning (1993) for birds.

<sup>b</sup> From the allometric equations in Nagy (1987).

• Diets based on data in EPA (1993) and Martin et al. (1951). Soil ingestion based on Beyer et al. (1994), Talmage and Walton (1993), and a default value of 2 percent soil ingestion.

kg = kilograms.

kg[dw]/day = kilograms (dry weight) per day.

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## Table J-10Transfer Factors Used in Exposure Models forLANL Technical Area 36-8 Ecological Risk Assessment

| Chemical of Potential      | Soil-to-Plant                | Soil-to-Invertebrate                | Food-to-Mammal               |
|----------------------------|------------------------------|-------------------------------------|------------------------------|
| Ecological Concern         | Transfer Factor <sup>a</sup> | Transfer Factor <sup>b</sup>        | Transfer Factor <sup>c</sup> |
| Copper                     | NL <sup>d</sup>              | NL                                  | NL                           |
| Lead                       | NL                           | NL                                  | NL                           |
| Acetone                    | 5.33E+01                     | 1.24E+00                            | 1.77E-06                     |
| Methylene chloride         | 7.34E+00                     | 1.47E+00                            | 3.50E-05                     |
| Toluene                    | 9.97E-01                     | 1.75E+00                            | 7.06E-04                     |
| Trichloroethene            | 1.05E+00                     | 1.74E+00                            | 6.52E-04                     |
| 1,2,4-Trimethylbenzene     |                              | Insufficient data for risk analysis |                              |
| Xylenes                    | 5.48E-01                     | 1.84E+00                            | 1.74E-03                     |
| Bis-2-ethylhexyl phthalate | 2.34E-03                     | 2.95E+00                            | 6.41E+00                     |
| Di-n-butyl phthalate       | 8.38E-02                     | 2.16E+00                            | 2.93E-02                     |
| n-Nitrosodiphenylamine     | 5.85E-01                     | 1.83E+00                            | 1.57E-03                     |
| 2,4-Dinitrotoluene         | 2.78E+00                     | 1.60E+00                            | 1.51E-04                     |
| НМХ                        | 2.74E+01                     | 1.31E+00                            | 4.82E-06                     |
| RDX                        | 1.22E+01                     | 1.41E+00                            | 1.64E-05                     |
| 2,4,6-Trinitrotoluene      | 4.60E+00                     | 1.53E+00                            | 7.06E-05                     |

<sup>a</sup> From equations developed in Travis and Arms (1988), based on the octanol water partition coefficient of the compound (except where noted).

<sup>b</sup> From equations developed in Connell and Markwell (1990), based on the octanol water partition coefficient of the compound (except where noted).

<sup>c</sup> Based on the regression with octanol water partition coefficient of the compound from data presented in Garten and Trabalka (1983) (except where noted).

<sup>d</sup> NL indicates nonlinear uptake model used (see Table J-11).

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## Table J-11Parameters Used in Nonlinear Uptake Models forLANL Technical Area 36-8 Ecological Risk Assessment

| Constituent                 | Cor            | oper             | Lead           |                |  |
|-----------------------------|----------------|------------------|----------------|----------------|--|
|                             | b <sub>0</sub> | b <sub>1</sub>   | b <sub>0</sub> | b <sub>1</sub> |  |
| Plants <sup>a</sup>         | 0.669          | 0.394            | -1.328         | 0.561          |  |
| Earthworms <sup>b</sup>     | 1.675          | 0.264            | -0.218         | 0.807          |  |
| Small Mammals: <sup>c</sup> |                |                  |                |                |  |
| Herbivore                   | -2.220         | 1.0 <sup>d</sup> | -0.6114        | 0.5181         |  |
| Omnivore                    | 1.4592         | 0.2681           | 0.0761         | 0.4422         |  |
| Insectivore                 | 2.1042         | 0.1783           | 0.4819         | 0.4869         |  |

<sup>a</sup> From Bechtel Jacobs Company (1998).

<sup>b</sup> From Sample et al. (1998a).

<sup>°</sup> From Sample et al. (1998b).

<sup>d</sup> Linear uptake model, as recommended in Sample et al. (1998b).

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#### Table J-12 Toxicity Data for Ecological Receptors at LANL Technical Area 36-8

|                                             |                     | Mammalian NOAELs <sup>a</sup> |                             |                          | Avian NOAELs <sup>a</sup> |                                   |                       |
|---------------------------------------------|---------------------|-------------------------------|-----------------------------|--------------------------|---------------------------|-----------------------------------|-----------------------|
| Chemical of Potential<br>Ecological Concern | Plant<br>Benchmark⁵ | Mammalian<br>Test Species     | Test Species<br>Body Weight | Test<br>Species<br>NOAEL | Avian<br>Test Species     | Test<br>Species<br>Body<br>Weight | Test Species<br>NOAEL |
| Copper                                      | 100                 | Mink                          | 1                           | 11.7                     | Chicken                   | 0.534                             | 47                    |
| Lead                                        | 50                  | Lab rat                       | 0.35                        | 8                        | American kestrel          | 0.13                              | 3.85                  |
| Acetone                                     | c                   | Lab rat                       | 0.35                        | 10                       |                           |                                   |                       |
| Methylene chloride                          |                     | Lab rat                       | 0.35                        | 5.85                     |                           |                                   |                       |
| Toluene                                     | 200                 | Lab mouse                     | 0.03                        | 26                       |                           |                                   |                       |
| Trichloroethene                             |                     | Lab mouse                     | 0.03                        | 0.7                      |                           |                                   |                       |
| 1,2,4-Trimethylbenzene                      |                     |                               |                             |                          |                           |                                   |                       |
| Xylenes                                     |                     | Lab mouse                     | 0.03                        | 2.1                      |                           |                                   |                       |
| Bis-2-ethylhexyl phthalate                  |                     | Lab mouse                     | 0.03                        | 18.3                     | Ringed dove               | 0.155                             | 1.1                   |
| Di-n-butyl phthalate                        | 200                 | Lab mouse                     | 0.03                        | 550                      | Ringed dove               | 0.155                             | 0.11                  |
| n-Nitrosodiphenylamine                      |                     | Lab rat                       | 0.35                        | 4.23 <sup>d</sup>        |                           |                                   |                       |
| 2,4-Dinitrotoluene                          |                     | Lab rat                       | 0.35                        | 0.54 <sup>e</sup>        |                           |                                   |                       |
| HMX                                         |                     | Lab mouse                     | 0.023                       | 3 <sup>f</sup>           |                           |                                   |                       |
| RDX                                         | 100                 | Lab mouse                     | 0.036                       | 7 <sup>†</sup>           |                           |                                   |                       |
| 2,4,6-Trinitrotoluene                       | 30                  | Lab rat <sup>h</sup>          | 0.318                       | 1.6 <sup>†</sup>         |                           |                                   |                       |

<sup>a</sup> From Sample et al. (1996), except where noted. Body weights in kilograms; NOAELs in milligrams per kilograms per day.

<sup>b</sup> From Efroymson et al. (1997), lowest-observed-adverse-effect-levels in mg/kg soil.

<sup>c</sup> --- designates insufficient toxicity data.

<sup>d</sup> Based on ratio of LD<sub>50</sub> values using n-nitrosodiethylamine data from EPA (1999) and RTECS (1999).

<sup>e</sup> Based on ratio of LD<sub>50</sub> values using 2,4,6-trinitrotoluene data from Talmage et al. (1999) and RTECS (1999).

<sup>f</sup> From Talmage et al. (1999).



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|                                        | Table J-13                           |                            |
|----------------------------------------|--------------------------------------|----------------------------|
| <b>Ecological Hazard Quotients for</b> | <b>Terrestrial Receptors at LANL</b> | <b>Technical Area 36-8</b> |

| Chemical of Potential<br>Ecological Concern | Receptor Species |               |               |                   |          |          |             |
|---------------------------------------------|------------------|---------------|---------------|-------------------|----------|----------|-------------|
| _                                           |                  | Western       |               |                   | American |          | Mexican     |
|                                             | Plants           | Vagrant shrew | harvest mouse | Montane vole      | kestrel  | Gray fox | spotted owl |
| Copper                                      | 5.70E-01         | 2.46E-01      | 1.99E-01      | 1.71E-01          | 6.08E-02 | 6.06E-02 | 2.08E-02    |
| Lead                                        | 6.20E-01         | 2.82E-01      | 1.80E-01      | 6.04E-02          | 4.52E-01 | 4.32E-02 | 8.71E-02    |
| Acetone                                     | NA <sup>a</sup>  | 1.13E-03      | 3.05E-02      | 6.50E-02          | NA       | 2.85E-03 | NA          |
| Methylene chloride                          | NA               | 6.59E-04      | 2.47E-03      | 4.48E-03          | NA       | 2.19E-04 | NA          |
| Toluene                                     | 3.00E-05         | 6.72E-05      | 6.74E-05      | 5.38E-05          | NA       | 4.95E-06 | NA          |
| Trichloroethene                             | NA               | 6.63E-03      | 6.79E-03      | 5.62E-03          | NA       | 5.02E-04 | NA          |
| 1,2,4-Trimethylbenzene                      |                  |               | Insuffici     | ent data to evalu | ate risk |          |             |
| Xylenes                                     | NA               | 3.05E-03      | 2.55E-03      | 1.30E-03          | NA       | 1.76E-04 | NA          |
| Bis-2-ethylhexyl phthalate                  | NA               | 5.56E-02      | 3.65E-02      | 5.97E-04          | 7.70E-01 | 1.10E-01 | 3.40E+00    |
| Di-n-butyl phthalate                        | 1.12E-02         | 1.44E-03      | 9.74E-04      | 9.66E-05          | 5.93E+00 | 7.29E-05 | 1.48E-01    |
| n-Nitrosodiphenylamine                      | NA               | 3.22E-02      | 2.73E-02      | 1.47E-02          | NA       | 1.90E-03 | NA          |
| 2,4-Dinitrotoluene                          | NA               | 5.14E+00      | 8.89E+00      | 1.23E+01          | NA       | 7.33E-01 | NA          |
| НМХ                                         | NA               | 4.24E-02      | 5.72E-01      | 1.19E+00          | NA       | 5.32E-02 | NA          |
| RDX                                         | 1.51E-02         | 5.09E-02      | 3.05E-01      | 5.97E-01          | NA       | 2.77E-02 | NA          |
| 2,4,6-Trinitrotoluene                       | 1.47E-02         | 6.15E-02      | 1.55E-01      | 2.53E-01          | NA       | 1.33E-02 | NA          |

**Bold** values indicate a hazard quotient greater than unity. <sup>a</sup> NA designates insufficient toxicity data available for risk estimation purpos.

es.

### ATTACHMENT K

PROPOSED SOIL MONITORING PROGRAM AND POST-DETONATION SOIL SAMPLING AND ANALYSIS PLAN FOR THE OPEN DETONATION UNIT AT TECHNICAL AREA 36

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K-1 Open Detonation (OD) Unit Soil Sample Locations

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#### LIST OF ABBREVIATIONS/ACRONYMS

| <sup>в</sup> С | degrees Celsius                                                                 |
|----------------|---------------------------------------------------------------------------------|
| CST-9          | Chemical Science and Technology Division's Inorganic Trace Analysis Group       |
| DX-2           | Dynamic Experimentation Division's High Explosives Science and Technology Group |
| EPA            | U. S. Environmental Protection Agency                                           |
| HE             | high explosives                                                                 |
| LANL           | Los Alamos National Laboratory                                                  |
| 20 NMAC 4.1    | New Mexico Administrative Code, Title 20, Chapter 4, Part 1                     |
| NMED           | New Mexico Environment Department                                               |
| OD             | open detonation                                                                 |
| PPE            | personal protective equipment                                                   |
| QA             | quality assurance                                                               |
| QC             | quality control                                                                 |
| SAP            | Sampling and Analysis Plan                                                      |
| SW-846         | EPA's "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods"      |
| ТА             | technical area                                                                  |

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#### ATTACHMENT K

#### PROPOSED SOIL MONITORING PROGRAM AND POST-DETONATION SOIL SAMPLING AND ANALYSIS PLAN FOR THE OPEN DETONATION UNIT AT TECHNICAL AREA 36

#### K.1 INTRODUCTION

This Sampling and Analysis Plan (SAP) describes the procedures for collecting representative post-detonation soil samples at the Los Alamos National Laboratory (LANL) Technical Area (TA) 36 open detonation (OD) unit. The post-detonation soil samples will be collected as part of the proposed TA-36 OD Soil Monitoring Program to ensure that any hazardous wastes or residues present in the soil as a result of OD treatment do not pose a significant risk to human health or the environment.

The proposed TA-36 OD Soil Monitoring Program requires one soil sampling effort the first year of the program. Analytical data collected from this sampling effort will then be used as additional input to the baseline risk assessment already conducted for the site (see Attachment J). This baseline risk assessment concludes that, after nearly 50 years of operations at TA-36, the current level of contaminants for surface soil does not pose a potential significant risk to human health. In addition, the overall ecological risks at the site are expected to be low. The soil sampling/risk assessment approach meets the monitoring and analysis requirements of the New Mexico Administrative Code, Title 20, Chapter 4, Part 1 (20 NMAC 4.1), Subpart V, 264.602, revised January 1, 1997 [1-1-97], and will ensure protection of human health and the environment. After the samples have been analyzed and the additional risk assessment is conducted, LANL proposes to address, with the New Mexico Environment Department (NMED), a reasonable schedule for potential additional activities using the risk assessment approach for the Soil Monitoring Program.

For post-detonation soil sampling, 9 discrete (noncomposited) representative soil samples will be collected from the OD treatment unit areas during a single sampling effort for the first year of the proposed Soil Monitoring Program. One sample will be collected from approximately the center of both portions of the OD unit, and 3 equally spaced samples will be collected along an arc with a radius of approximately 200 feet from the center of both portions (for a total of 8 samples) (see Figure K-1). A duplicate soil sample will be collected from 1 of the 8 locations, for a total of 9 soil samples for the OD unit.

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Vadose zone sampling and monitoring is not anticipated at the TA-36 OD unit. Previous hydrogeologic studies at LANL ("Hydrogeologic Assessment of Technical Area 54, Areas G and L" [LANL, 1987]) have shown that the combination of very low moisture content in the Bandelier Tuff, the empirical determination that moisture from precipitation does not infiltrate below a depth of 10 to 22 feet, and very low calculated flux rates all indicate that aqueous transport of contaminants through the tuff is not a viable mechanism for contaminant migration from mesa tops. Furthermore, the risk assessment conducted for the TA-36 OD unit (see Attachment J) concludes that after nearly 50 years of operations at TA-36, the current level of contaminants for surface soil does not pose a threat to human health. Therefore, rather than conducting vadose zone sampling for the OD unit at TA-36, LANL proposes to first address surface systems (surface water, soil, and sediments) and use resulting surface systems analytical data in conjunction with existing data in an iterative manner and to conduct additional risk assessments to evaluate additional data needs, if any, and thus optimize characterization and monitoring activities. Vadose zone sampling would then be conducted only if the results of the additional risk assessments indicate a need. If surface sampling data indicate that Resource Conservation and Recovery Act contaminants resulting from OD treatment are present and the risk assessment indicates a threat to human health or the environment, vadose zone sampling may then be conducted using the methods described in this SAP.

#### K.2 QUALITY ASSURANCE

The overall objective of quality assurance (QA) is to ensure precision, accuracy, representativeness, comparability, and completeness of measurements. All of these QA parameters are essential components of the proposed TA-36 OD Soil Monitoring Program. Field duplicate and quality control (QC) samples will be collected, as appropriate, to evaluate the quantitative QA parameters of precision and accuracy.

Records management is also an essential QA component of the proposed Soil Monitoring Program. All field and laboratory records generated by the sampling and analysis activities will be maintained to document that these activities were conducted in accordance with this SAP.

#### K.2.1 Field Duplicate and QC Samples

Field duplicate and QC samples are collected in the field to verify reproducibility of analytical data, and to determine whether extraneous contaminants may have been introduced as a result of

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sampling or handling procedures. QC samples are also used as part of the analytical laboratory's QA/QC program. Field duplicate and QC samples are described below.

- X Duplicate Samples Duplicate samples are collected to monitor sample variability, determine total random error, and verify reproducibility of the analytical data. These collocated samples will be collected simultaneously from the same soil source under identical sampling conditions. Duplicates will be collected at a frequency of 1 per 20 samples per matrix. They will be labeled with a sequential number similar to the soil samples, and designated as duplicate samples in the field logbook.
- X Equipment Rinsate Blank Equipment rinsate blanks are collected only if reusable sampling equipment is used for sample collection. Equipment rinsate blanks monitor sampling device decontamination effectiveness and potential for sample crosscontamination that may result from inadequate cleaning procedures. These samples are collected by pouring deionized water over the equipment surface that contacts the sample (after it has been decontaminated) and collecting the rinsate in a sample container. Equipment rinsate blanks will be labeled with sequential numbers similar to soil samples and designated as equipment rinsate blanks in the field logbook. Sample frequency is 1 per 20 field samples.
- *X* Field Blank Field blanks are collected to monitor sampling procedures and ambient conditions at the site, and to evaluate the cleanliness of the precleaned sample bottles. Deionized water is poured into sample containers in the immediate area where the field sample is collected and then preserved, as necessary. Field blanks are collected at a frequency of 1 per 20 field samples per matrix. The field blank must be labeled with a sequential number similar to the soil samples and designated as a field blank in the field logbook.

#### K.2.2 <u>Records Management</u>

Sampling personnel will complete and maintain records to document sampling and analysis activities. These records will demonstrate proper implementation of this plan and ensure that the analytical results can be traced back to the soil that was sampled. Records pertinent to the proposed Soil Monitoring Program include all field and laboratory records generated by the activities performed in accordance with this plan and are listed below.

- X Request for Analysis Log
- X "Presampling Questionnaire and Site-Specific Safety Plan"
- X Field logbook
- X Chain-of-Custody Record
- X Shipping papers for samples
- X Analytical results reports
- X Discrepancy and corrective action reports

- X Sampling equipment maintenance and calibration forms
- X Written requests and approvals for any temporary modifications to sample collection procedures

Sampling personnel must make all entries on all records with indelible blue or black ink. All entries should be legible and succinct. Sampling personnel must ensure that the records are identifiable, retrievable, and protected against damage, deterioration, and loss. Access to records must be controlled. Personnel making changes to any record should do so by drawing a single line through the original information, writing the correct information adjacent to the original information, and initialing and dating the change.

#### K.2.2.1 Request for Analysis Log

Sampling personnel will use the Request for Analysis Log to track individual sampling efforts and will maintain completed logs. Information provided on the Request for Analysis Log includes the requestor name and group, the requested sample date, the date sampling personnel contacted the requestor to complete the "Presampling Questionnaire and Site-Specific Safety Plan," sample collection date, remarks, results receipt date, and sampler's initials.

#### K.2.2.2 Presampling Questionnaire and Site-Specific Safety Plan

Sampling personnel preparing for the initial sampling effort must ensure that a "Presampling Questionnaire and Site-Specific Safety Plan" is prepared and completed. Information required on the Presampling Questionnaire includes the material to be sampled, the site, and the work area; special hazards of concern; personal protective equipment (PPE) to be worn; emergency evacuation routes and safety equipment locations; and important telephone numbers. Before sampling is conducted, all personnel involved with the sampling effort must sign the form, certifying that they have reviewed the information. The "Presampling Questionnaire and Site-Specific Safety Plan" is described in detail in the "ESH-19 Sampling Plan" (LANL, 1995).

#### K.2.2.3 Field Logbook

The field logbook is a bound notebook containing all information pertinent to the sampling operation. The field logbook remains in the custody of sampling personnel at all times. During sampling activities, personnel document the following information in the field logbook:

- X Sampling date and time,
- $\rm X~$  Cost code, program code, and cost account,
- X Project name and location,

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- X Collector's name(s),
- X Possible sample hazards,
- X Personnel involved,
- X Weather conditions,
- X Unique sample number(s),
- X Sample type(s) and volume(s),
- X Analysis requested, and
- X Remarks (see below)
  - Field observations and measurements,
  - Deviations from or anomalies in the sampling procedures,
  - Lot number and expiration date of preservatives (if applicable),
  - Preservation method used (if applicable),
  - Sample characteristics (category, matrix, homogenous/heterogeneous, solid/liquid),
  - Sample container(s) and sampling equipment,
  - Sample point location(s),
  - Sampling strategy,
  - Sample identification (e.g., duplicate, field blank), and
  - Other pertinent information.

Sample numbers include the year the sample was taken and the sampler's initials followed by a sequential number that distinguishes individual samples. Sampling personnel record only a single sampling effort per page in the field logbook, and draw a diagonal line through any blank space(s) at the bottom of a page.

#### K.2.2.4 Chain-of-Custody Records

Whenever sampling personnel relinquish custody of a sample(s) (e.g., to analytical personnel), the person relinquishing the sample must complete the required information on a Chain-of-Custody Record. This record allows the sample to be tracked throughout the analytical process, assuring control over tracking of the sample and its corresponding analytical results. This tracking is a vital aspect of QA. Sampling personnel maintain a copy of the signed Chain-of-Custody Record. The Chain-of-Custody Record includes the following information:

- X Project name,
- X Names of sampling personnel,
- X Date and time of sample shipment/transfer,
- X Sample type(s) (composite, grab),
- X Sampling site (station) location(s),
- X Unique sample number for each sample being transferred,
- X Number of containers,
- X Requested analyses,
- X Sample label number,
- X Signature of person relinquishing the sample(s),
- X Date and time the sample(s) is relinquished,
- X Signature of person receiving the sample(s), and

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X Any additional remarks.

#### K.2.2.5 Shipping Papers

Samples to be collected as part of the proposed TA-36 OD Soil Monitoring Program and then transported to an analytical laboratory are exempt from regulation as hazardous waste (20 NMAC 4.1, Subpart V, 261.4(d) [1-1-97]). In such cases, these samples are also exempt from U.S. Department of Transportation regulations. Sampling personnel will fill out a transportation form prior to transportation or shipment of samples. The form will document the following:

- X Name and address of analytical laboratory,
- X Name and phone number of personnel shipping the samples,
- X Name of transportation company,
- X Type of media (e.g., soil, liquid),
- X Number of sample containers, and
- X Total volume of samples.

#### K.2.2.6 Analytical Results Reports

Analytical personnel will generate a report of the analytical results for each sample submitted by sampling personnel. The following information must be included in each report:

- X Analytical request number,
- X Unique sample number (provided by sample collector),
- X Unique sample number assigned by the analytical laboratory (if applicable),
- X Date the sample was received by analytical personnel,
- X Date of analysis,
- X Name of the analyst (or initials),
- X Analytical parameters requested,
- X Analytical results for each parameter,
- X Analytical methods used for each parameter, and
- X Data from QC samples (e.g., replicates, matrix spikes, and surrogates) introduced by the analytical laboratory into the sample analysis stream.

Sampling personnel may compare the analytical reports to the field logbook to identify cross contamination, blank contamination, or other discrepancies. Sampling personnel may then make appropriate entries on the Request for Analysis Log (see Section K.2.2.1).

#### K.2.2.7 Discrepancy and Corrective Action Reports

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If sampling personnel note significant deficiencies or discrepancies while collecting samples or reviewing the analytical results, a report will be prepared describing the deficiencies or discrepancies and the action required for correction. The report should also describe how the deficiency or discrepancy was identified, person(s) responsible for correcting the discrepancy, and a recommended schedule for and type of corrective action necessary.

#### K.3 SAMPLING PROCEDURES

This section describes activities that sampling personnel should perform before, during, and after a sampling effort conducted as part of the proposed TA-36 OD Soil Monitoring Program. The instructions in this section provide general information about sample collection, preservation, packaging, and shipping. Following these instructions will ensure that the collected samples are representative, thus providing scientifically valid and legally defensible analytical data.

#### K.3.1 Presampling Activities

Field preparation includes organizing sample container(s), sample label(s), and documentation in an orderly, systematic manner that will promote consistency and traceability of all data. Sampling personnel should perform the following activities before each sampling effort.

- X Identify the sampling team.
- X Consult analytical personnel for guidance on sample containers, preservatives, and holding times.
- X Complete a "Presampling Questionnaire and Site-Specific Safety Plan" for the initial sampling effort (see the "ESH-19 Sampling Plan").
- X Review and discuss specific plans, safety issues and considerations, procedures, and QA/QC concerns applicable to the sampling effort.
- X Assemble sample containers, labels, integrity seals, and Chain-of-Custody Records.
- X Prepare equipment and supplies.

Immediately preceding the sampling effort, sampling personnel and any site personnel involved in sampling operations must attend a safety briefing, during which they review the "Presampling Questionnaire and Site-Specific Safety Plan." Sampling personnel must wear PPE noted on the "Presampling Questionnaire and Site-Specific Safety Plan."

#### K.3.2 Sampling Activities

Sampling personnel will collect, label, preserve (as appropriate), package, store, and transport the samples to enable holding times to be met. Throughout this process, sampling personnel will

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document chain-of-custody for the samples using the Chain-of-Custody Record. Sampling personnel will record all pertinent information (e.g., date, time, site, sample location) in a field logbook.

The spade and scoop method will be used by LANL personnel collecting surface soil samples. Samples will be collected from the locations shown on Figure K-1. Sample containers will be labeled with the date, time, exact sampling location, and the name of the individual collecting the sample. For each sampling effort, a duplicate soil sample will be collected from one of the sample locations and analyzed to assess QC. The duplicate soil sample will be collected and handled in the same manner as the other soil samples. In addition, a field blank will be collected for each sampling effort. Following the collection of each sample, used disposable sampling equipment will be containerized and stored appropriately, pending receipt of analytical results. Equipment rinsate blanks will be collected only if vadose zone sampling is conducted using reusable sample collection equipment.

Following each sampling effort, LANL personnel will transport the field and QC samples to LANL's High Explosives Science and Technology Group (DX-2) for high explosives (HE) analysis, and to LANL's Inorganic Trace Analysis Group (CST-9) for metals analysis or, if necessary, will arrange for transport to and analysis at a LANL-approved off-site analytical laboratory. Samples will be transported to the respective analytical laboratories in a timely manner to ensure that sample holding times specified in the U.S. Environmental Protection Agency (EPA) "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846) (EPA, 1986) are met. In addition, samples will be preserved, as appropriate, as specified in SW-846. At the time of sample collection, sampling personnel will complete Chain-of-Custody Records and will place integrity tape on all sample containers to ensure that sample custody is maintained and sample integrity is not compromised. Sample collection personnel will maintain physical custody of the samples until the samples are relinquished to analytical laboratory personnel or to the shipping representative. Upon receiving the soil samples, the laboratory technician or shipping representative will assume custody of the samples, noting the date, time, and name of the person relinquishing custody. All samples will be analyzed using SW-846 methods or similar NMED-approved methods for the parameters described in Section K.4 of this SAP. Step-by-step sampling procedures for collecting surface and subsurface soil samples are provided in the following sections.

#### K.3.2.1 Sampling Surface Soil Using Spade and Scoop Method

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Surface and near surface soil samples will be collected using a nonfriction-type scoop or trowel.

Preservation will be achieved by cooling the samples to 4 degrees Celsius (EC). Sampling will be performed as follows:

- X Review health and safety concerns,
- X Don PPE,
- X Clear any surface debris (e.g., twigs, rocks) from the area to be sampled,
- X Using a precleaned, disposable scoop or trowel, carefully collect a sample from the 0 3 inch depth with the scoop or trowel,
- X Remove the sample container cap and take extreme care to avoid contaminating the containers and caps,
- X Transfer the sample into an appropriate sample container,
- X Cap the sample container,
- X Attach the integrity seal and the completed self-adhesive sample label,
- X Refrigerate the sample in an insulated cooler,
- X Record pertinent information in the field logbook,
- X Complete the sample analysis request log and Chain-of-Custody Record,
- X Collect a duplicate sample following the steps outlined above,
- X Prepare the field QA/QC samples (see Section K.2.1 of this plan),
- X Place disposable scoop or trowel in an approved waste container, and
- X Doff PPE and place in an approved waste container.

#### K.3.2.2 Sampling Subsurface Soil with Hand Auger and Thin-Walled Sampler

Subsurface (i.e., vadose zone) sampling will be conducted only if the results of future risk assessments indicate the need. Subsurface soil samples may be collected with a hand auger and thin-walled sampler, which can be used in a wide variety of soil conditions. This system can be used to sample to a depth of 6 feet. The presence of rock layers and collapse of any borehole precludes sampling at depths greater than 6 feet. Preservation of soil samples will be achieved by cooling the samples to 4EC. Sampling will be performed as follows:

- X Review health and safety concerns;
- X Don PPE;
- X Clear any surface debris (e.g., twigs, rocks) from the area to be sampled;
- X Begin drilling, periodically removing accumulated soils;
- X After reaching desired depth, slowly and carefully remove the auger from the boring. When sampling directly from the auger, collect the sample after the auger is removed from

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the boring, transfer it into a sample container, and cap the sample container;

- X Remove auger tip from drill rods and replace with a precleaned, decontaminated, thinwalled corer. Install the proper cutting tip;
- X Carefully lower the corer down the borehole, being careful not to scrape soil from the sides of the borehole that will fall into the bottom of the borehole. Gradually force the corer into the soil. Avoid hammering the drill rods to facilitate coring because the vibrations may cause the boring walls to collapse;
- X Remove the tube sampler and unscrew the drill rods;
- X Remove the cutting tip and remove the core from the sampling device;
- X Discard the top inch (approximately) of the core which contains any material collected by the tube sampler before it penetrated the layer to be sampled;
- X Remove the sample container cap and take extreme care to avoid contaminating the containers and caps;
- X Place the remaining core in a sample container;
- X Cap the sample container;
- X Attach the integrity seal and the completed self-adhesive sample label;
- X Refrigerate the sample in an insulated cooler;
- X Record information in the field logbook;
- X Complete the sample analysis request log and Chain-of-Custody Record;
- X Collect a duplicate sample following the steps outlined above;
- X Prepare the field QA/QC samples (see Section K.2.1 of this plan);
- X Clean and decontaminate the sampler after each use and between sampling locations;
- X Place decontamination rinsate and waste in appropriate containers; and
- X Doff PPE and place in an approved waste container.

#### K.3.3 Post-Sampling Activities

Sampling personnel will verify that all sample containers have been correctly identified and that the labels indicate the sample number, preservatives (if any), date, and time. In addition, sampling personnel will check label information against information recorded in the field logbook. Custody of filled sample containers (with integrity seal affixed) must be maintained by sampling personnel by keeping the containers (or the cooler[s]) in their possession, within view, locked or sealed to prevent tampering, or in an area under lock and key with controlled access. Sampling personnel will also prepare samples for transport to analytical facilities (see Section K.2.2.5). Finally, sampling personnel must ensure that used, containerized sampling equipment, equipment decontamination liquids, and PPE are transported to and stored in an approved waste storage area.

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#### K.4 ANALYTICAL DESIGN, PARAMETERS, AND METHODS

This section describes the analytical parameters, the rationale for parameter selection, and the analytical methods to be used for the samples collected as part of the proposed TA-36 OD Soil Monitoring Program. Also included in this section is information on the background values of the constituents of concern, statistical comparison procedures that may be used to evaluate the data obtained, and how the risk assessment approach will be used for the Soil Monitoring Program.

#### K.4.1 Parameters, Test Methods, and Rationale

Analytical parameters, the rationale for parameter selection, and EPA *SW-846* test methods for soil samples collected as part of the proposed TA-36 OD Soil Monitoring Program are presented in Table K-1.

#### K.4.2 Determination of Background Values

Because HE is not naturally occurring, background values will likely be below instrument detection limits. The background concentrations of the metals proposed for monitoring were estimated using data collected as part of LANL's Environmental Surveillance Program (LANL, 1997); these existing data include a number of on-site (i.e., within LANL boundaries) and off-site perimeter (i.e., within approximately 5 kilometers of LANL boundaries) sample locations. The values given in Table K-2 represent the average concentrations of samples collected from the 0 - 2 inch depth at the 22 on-site and off-site perimeter locations during 1996. Background data will be used to calculate a background mean and variance, per the guidance in Appendix IV of 20 NMAC 4.1, Subpart V, Part 264 [1-1-97].

#### K.4.3 <u>Statistical Comparison Procedures and Additional Risk Assessments</u>

Statistical analysis of analytical data may be performed using Cochran's Approximation to the Behrens-Fisher Students' t-test in Appendix IV of 20 NMAC 4.1, Subpart V, Part 264 [1-1-97]. This method of statistical analysis may be performed by LANL to identify statistically significant differences between the monitoring data and background data.

Sampling and analysis data will be used to perform an additional risk assessment, which will determine if any hazardous wastes or residues present in the soil as a result of treatment by OD pose a significant risk to human health or the environment. LANL will then address with NMED a reasonable schedule for potential additional activities using the risk assessment approach for the Soil Monitoring Program.

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#### K.5 REFERENCES

Los Alamos National Laboratory (LANL), 1997, "Environmental Surveillance and Compliance at Los Alamos During 1996," LA-13343-ENV, Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1995, "ESH-19 Sampling Plan," Los Alamos National Laboratory, Los Alamos, New Mexico.

Los Alamos National Laboratory (LANL), 1987, "Hydrogeologic Assessment of Technical Area 54, Areas G and L." Los Alamos National Laboratory, Los Alamos, New Mexico.

New Mexico Environmental Improvement Board (NMEIB), 1997, "New Mexico Administrative Code," Title 20 (Environmental Protection), Chapter 4 (Hazardous Waste), Part 1 (Hazardous Waste Management), NMEIB, Santa Fe, New Mexico.

U.S. Environmental Protection Agency (EPA), 1986, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, Third Edition and all subsequent updates, Office of Solid Waste, Washington, D.C.

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| Table K-1                                        |  |  |  |  |  |
|--------------------------------------------------|--|--|--|--|--|
| Selected Parameters, Rationale, and Test Methods |  |  |  |  |  |

| General<br>Chemical Class | Parameter              | EPA Hazardous<br>Waste No. | Rationale for Parameter Selection                                                                                            | <i>SW-846</i> Test<br>Method <sup>a</sup> |
|---------------------------|------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Explosives                | HMX <sup>♭</sup>       | D003                       | Determine the presence of high explosives (HE) waste residues                                                                | 8330                                      |
|                           | RDX <sup>c</sup>       | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 1,3,5-TNB <sup>d</sup> | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 1.3-DNB <sup>e</sup>   | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | Tetryl <sup>f</sup>    | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | NB <sup>g</sup>        | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 2,4,6-TNT <sup>h</sup> | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 4-Am-DNT <sup>i</sup>  | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 2-Am-DNT <sup>j</sup>  | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 2,4-DNT <sup>k</sup>   | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 2,6-DNT                | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 2-NT <sup>I</sup>      | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 3-NT                   | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
|                           | 4-NT                   | D003                       | Determine the presence of HE waste residues                                                                                  | 8330                                      |
| Metals                    | Barium                 | D005                       | Determine the presence of barium<br>metal associated with the HE-<br>contaminated waste treated at the OD<br>unit            | 7081                                      |
|                           | Cadmium                | D006                       | Determine the presence of cadmium<br>metal associated with the HE-<br>contaminated waste treated at the OD<br>unit           | 7131A                                     |
|                           | Chromium               | D007                       | Determine the presence of chromium<br>metal which may originate from<br>detonator caps used in OD waste<br>treatment process | 7191                                      |

See footnotes at end of table.

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### Table K-1 (Continued) Selected Parameters, Rationale, and Test Methods

| General<br>Chemical Class | Parameter | EPA Hazardous<br>Waste No. | Rationale for Parameter Selection                                                                                   | SW-846 Test<br>Method <sup>a</sup> |
|---------------------------|-----------|----------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------|
| Metals<br>(continued)     | Lead      | D008                       | Determine the presence of lead metal<br>associated with the HE-contaminated<br>waste treated at the OD unit         | 7421                               |
|                           | Mercury   | D009                       | Determine the presence of mercury<br>metal associated with the HE-<br>contaminated waste treated at the OD<br>unit  | 7471A                              |
|                           | Selenium  | D010                       | Determine the presence of selenium<br>metal associated with the HE-<br>contaminated waste treated at the OD<br>unit | 7741A                              |
|                           | Silver    | D011                       | Determine the presence of silver<br>metal associated with the HE-<br>contaminated waste treated at the OD<br>unit   | 7761                               |

<sup>a</sup> U.S. Environmental Protection Agency, 1986, "Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods," *SW-846.* 

- <sup>b</sup> Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
- Hexahydro-1,3,5-trinitro-1,3,5-triazine
- d TNB = trinitrobenzene
- <sup>e</sup> DNB = dinitrobenzene
- <sup>f</sup> Methyl-2,4,6-trinitrophenylnitramine
- <sup>g</sup> NB = nitrobenzene
- <sup>h</sup> TNT = trinitrotoluene
- 4-Amino-2,6-dinitrotoluene
- 2-Amino-4,6-dinitrotoluene
- <sup>k</sup> DNT = dinitrotoluene
- NT = nitrotoluene

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| Table K-2                                                          |
|--------------------------------------------------------------------|
| Average Background Concentrations for Selected Metals <sup>a</sup> |

| Element  | Average Background Concentration<br>(parts per million) |
|----------|---------------------------------------------------------|
| Barium   | 95                                                      |
| Cadmium  | 0.16                                                    |
| Chromium | 6.9                                                     |
| Lead     | 13.22                                                   |
| Mercury  | 0.03                                                    |
| Selenium | 0.4                                                     |
| Silver   | 0.13                                                    |

<sup>a</sup> Source: *Environmental Surveillance and Compliance at Los Alamos During 1996,* Los Alamos National Laboratory, 1997.



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### ATTACHMENT L

### ANALYTICAL DATA FOR SOIL SAMPLES COLLECTED NEAR TECHNICAL AREA 36, BUILDING 8
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The analytical data included in this attachment are from samples collected by the Environmental Protection Group in August and September of 1992, and by the Environmental Restoration Project in July and August of 1994 and in April of 1997.



# memorandum

<sup>10</sup> Tony Grieggs, EM-8, MS K490

DATE: May 14, 1993

THRU: Ron Conrad, EM-8, MS K490 RC,

, ....

MAIL STOP/TELEPHONE: K490/7-0815

# FROM Phil Fresquez, EM-8

SYMBOL: EM-8:93-1315

## SUBJECT: RESULTS OF THE SOIL SAMPLING SURVEY CONDUCTED OVER ACTIVE RCRA FIRING SITE TA-36-8

In August and September of 1992, the Environmental Protection Group (EM-8) collected soil and water (rinsate) samples from two detonation areas located at TA-36 (Minie Site) for the Corrective Activities Program (Phil Fresquez, "Sampling Plan for the Characterization of Active RCRA Firing Site TA-36-8", Los Alamos National Laboratory memorandum EM-8:92-2315, to Tony Grieggs [August 17, 1992]). One detonation area was located above (bunker) building TA-36-8 (designated in this report as TA-36B); and, the other was located approximately 100 yards east of building TA-36-8 (designated in this report as TA-36A).

At each site, 24 soil surface samples were collected at the 0 to 3-inch-depth in four directions (N, S, E, and W) at various distances away from the center of the pad. A sediment sample was also collected down gradient of the pad(s), and a rinsate sample was collected from various scattered debris from around the site(s). With the exception of the rinsate sample, all other sample points were surveyed (by the New Mexico State Plane coordinate system) for future reference.

All soil samples were screened for gross alpha, beta and gamma radioactivity before they were submitted under chain-of-custody documentation to the Environmental Chemistry Group (EM-9) for the analysis of Toxicity Characteristic Leaching Procedure (TCLP) metals (Ag, As, Ba, Cd, Cr, Pb, Hg and Se), Hazardous Substance List (HSL) metals (Al, Ba, Be, Cu, Fe, and Pb), Semivolatile Organic Compounds (SVOC), and Total uranium. High Explosive residues (HMX [1,3,5,7-tetranitro-1,3,5,7-tetraazacyclooctane], RDX 1,3,5-trinitrohexahydro-1,3,5-triazine], TETRYL [2,4,6-trinitrophenylmethylnitramine], TNT [2,4,6-trinitrotoluene], and 2,4-DNT [2,4-dinitrotoluene) were analyzed by the Explosives Technology Group (M-1).

The distances sampled and the results from each of the detonation pads are reported below:

The Detonation Pad Located Approximately 100-yards East of Building TA-36-8 (TA-36A): Samples at this site were collected at the 0, 5, 10, 25, 50 and 100-foot-distances from the detonation area in four directions (N, S, E and W). Most soil samples contained TCLP metals below Environmental Protection Agency (EPA) action levels; one sample (E-50), however, contained TCLP Pb concentrations (7.5 mg/L) above EPA action levels (i.e., >5 mg/L). The soil/sediment and rinsate samples all had TCLP metal concentrations below action levels. Similarly, all of the hazardous substance list heavy metals were below EPA action levels. The area contained five SVOC's: 2,4-dinitrotoluene, 2,6-dinitrotoluene, nnitrosodiphenylamine, di-n-butylphthalate and bis-(2-ethylhexyl) phthalate. Many samples contained 2,4-dinitrotoluene and/or 2,6-dinitrotoluene in concentrations above EPA action levels (i.e., >1 ppm). These samples were located at: N-100, S-25, S-50, W-10, E-5, E-50, and E-100. The most heavily contaminated soil samples were located on the transect radiating towards the east (this was direction of blast area), and towards the drainage channel. In fact, the soil/sediment sample collected from the drainage channel contained 18.8 ppm of 2,4-dinitrotoluene. The drainage channel is located approximately 76-feet-away from the detonation area. No SVOC's were detected in the rinsate sample.

High explosive residues in many samples were detected. HMX ranged in concentration from 0.3 to 3.9 ppm, RDX ranged in concentration from 0.3 to 21 ppm, TNT ranged in concentration from 0.4 to 5.6 ppm, and 2,4 DNT (2,4-dinitrotoluene) ranged in concentration from 0.2 to 207 ppm. The highest amount of 2,4 DNT (207 ppm) was detected at sample point E-50. Similarly, 119.6 ppm of 2,4 DNT was discovered in the drainage channel sample. These data correlate well with those from EM-9. TETRYL was not detected in any of the samples collected, and no HE residues were detected in the rinsate sample.

The results for total U in these soil samples have not been received from EM-9 as of yet; however, <0.1 ppb of total U was detected in the scattered debris (rinsate sample) that was collected over the site. Personnel familiar with TA-36-8 activities indicate that uranium is not used at this particular detonation area (Mike Montoya, Los Alamos National Laboratory, personal communication, August 1992).

The Detonation Pad Located On-Top-Of (Bunker) Building TA-36-8 (36B): Samples were collected along each of four transects radiating towards the N, S, E and W at the 0, 20, 40, 60, 100 and 150-foot-distances from the detonation area.

Most soil samples contained TCLP metals below EPA action levels. One soil sample (E-20), however, contained TCLP-Ag (5.4 mg/L) and TCLP-As (7.39 mg/L) above EPA action levels (i.e., >5 mg/L). No hazardous substance list metals were detected above EPA action levels in any of the soil samples collected. Similarly, there were no TCLP or HSL metals in the sediment (drainage channel) and rinsate samples above EPA action levels.

Four soil samples, including one collected in the drainage channel, contained SVOC's (di-nbutylphthalate, phenanthrene and/or bis-2-ethylhexylphthalatewere). These compounds, however, were detected at ppb levels and were far below EPA action levels. No SVOC's were detected in the rinsate sample.

High explosive residues in some samples were detected. HMX ranged in concentration from 0.3 to 1.3 ppm, RDX ranged in concentration from 0.3 to 1.3 ppm, and TNT ranged in concentration from 0.4 to 0.9 ppm. 2,4 DNT and TETRYL were not detected in any of the samples collected at this site, and no HE residues were detected in the sediment or rinsate samples.

Total U ranged in concentration from 2.4 to 98 ppm, and the average concentration over the entire site was measured at 24.4 ( $\pm$ 21.5) ppm. The transect radiating to the west contained the highest amounts of total U (the mean was 40.8 ppm). Upper limit background (x + 2SD) concentrations for total U in northern New Mexico is around 3.4 ppm. The drainage channel sample and the rinsate sample contained 10 ppm and 172 ppb of total U, respectively.

All of the records are enclosed for your information; (1) the gross alpha, beta and gamma measurements, (2) the chain-of-custody forms, (3) the analytical data (with the exception of total uranium at the "36A" site), and the survey coordinates. The uranium data will be reported as soon as we receive it from EM-9. Please call me at 667-0815 if there are any questions about the study.

RC:PF:smm

Cy: S. Rae, EM-8, MS K490 T. Sandoval, EM-8, MS K490 M. Saladen, EM-8, MS K490 G. Gould, MEE-4, MS G787 M. Montoya, M-8, MS J960 D. Griechen, M-DO, MS P915 Circ. File

| REPORT NUMBER: 16067      | TCLC<br>Bisto                                          |
|---------------------------|--------------------------------------------------------|
|                           | ******* EM-9 ANALYTICAL REPORT *********               |
|                           | Prepared by: JDMORGAN on 24-Nov-1992                   |
| REQUEST NUMBER: 13437     | MATRIX: SE ANALYST: JANET MORGAN PROGRAM CODE: M106    |
| OWNER: Philip R. Fresquez | GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815              |
| ANALYTICAL TECHNIQUE: ICP | ES ANALYTICAL PROCEDURE: 6010 NOTEBOOK: R8149 PAGE: 43 |

CUSTOMER SAMPLES:

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| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |                        |      |
|--------------|----------|----------|------------|-------------|-------|------------|------------------------|------|
| NUM          | NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT                |      |
| PF-36A-0-0   | 92.26677 | ВА       | 2.17       | 0.22        | MG/L  | 11/23/92   |                        | 1915 |
| PF-36A-0-0   | 92.26677 | CD       | < 0.01     |             | MG/L  | 11/23/92   | < `                    |      |
| PF-36A-0-0   | 92.26677 | CR       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-0-0   | 92.26677 | РВ       | < 0.05     |             | MG/L  | 11/23/92   | - 9                    |      |
| PF-36A-S-100 | 92.26678 | ВА       | 0.84       | 0.08        | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-100 | 92.26678 | CD       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-100 | 92.26678 | CR       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-100 | 92.26678 | PB       | < 0.05     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-50' | 92.26679 | BA       | 1.73       | 0.17        | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-50' | 92.26679 | CD       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-50' | 92.26679 | CR       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-50' | 92.26679 | PB       | < 0.05     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-25' | 92.26680 | BA       | 2.98       | 0.3         | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-25' | 92.26680 | CD       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-25' | 92.26680 | CR       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-25' | 92.26680 | PB       | < 0.05     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-S-10' | 92.26681 | BA       | 7.24       | 0.72        | MG/L  | 11/23/92   | 1                      |      |
| PF-36A-S-10' | 92.26681 | CD       | < 0.01     |             | MG/L  | 11/23/92   | ]                      |      |
| PF-36A-S-10' | 92.26681 | CR       | < 0.01     |             | MG/L  | 11/23/92   | <i>(</i> ), <i>(</i> ) |      |
| PF-36A-S-10' | 92.26681 | PB       | < 0.05     |             | MG/L  | 11/23/92   | RP                     |      |
| PF-36A-S-5'  | 92.26682 | BA       | 2.78       | 0.28        | MG/L  | 11/23/92   | V                      |      |
| PF-36A-S-5'  | 92.26682 | CD       | < 0.01     |             | MG/L  | 11/23/92   | . /                    |      |
| PF-36A-S-5'  | 92.26682 | CR       | < 0.01     |             | MG/L  | 11/23/92   | M/                     |      |
| PF-36A-S-51  | 92.26682 | PB       | < 0.05     |             | MG/L  | 11/23/92   | // V                   |      |
| PF-36A-W-100 | 92.26683 | BA       | 0.77       | 0.08        | MG/L  | 11/23/92   | V                      |      |
| PF-36A-W-100 | 92.26683 | CD       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-100 | 92.26683 | CR       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-100 | 92.26683 | PB       | < 0.05     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-50' | 92.26684 | BA       | 0.59       | 0.06        | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-50' | 92.26684 | CD       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-50' | 92.26684 | CR       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-50' | 92.26684 | РВ       | < 0.05     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-25' | 92.26685 | BA       | 1.1        | 0.11        | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-25  | 92.26685 | CD       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-25' | 92.26685 | CR       | < 0.01     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-25' | 92.26685 | PB       | < 0.05     |             | MG/L  | 11/23/92   |                        |      |
| PF-36A-W-10' | 92.26686 | BA       | 1.27       | 0.13        | MG/L  | 11/23/92   |                        |      |

PF-36A-W-10' 92.26686 CD < 0.01 MG/L 11/23/92 PF-36A-W-10' 92.26686 CR < 0.01 MG/L 11/23/92 PF-36A-W-10' 92.26686 PB < 0.05 MG/L 11/23/92 PF-36A-W-5' 92.26687 BA 1. 0.1 MG/L 11/23/92 PF-36A-W-5' 92.26687 CD < 0.01 MG/L 11/23/92 PF-36A-W-5/ 92.26687 CR < 0.01 MG/L 11/23/92 PF-36A-W-5' 92.26687 PB < 0.05 MG/L 11/23/92 PF-36A-E-100 92.26688 BA 2.28 0.23 MG/L 11/23/92 PF-36A-E-100 92.26688 CD < 0.01 MG/L 11/23/92 PF-36A-E-100 92.26688 CR < 0.01 MG/L 11/23/92 PF-36A-E-100 92.26688 PB < 0.05 MG/L 11/23/92 PF-36A-E-76 92.26689 BA 8.41 0.84 MG/L 11/23/92 PF-36A-E-76 92.26689 CD < 0.01 MG/L 11/23/92 PF-36A-E-76 92.26689 CR < 0.01 MG/L 11/23/92 PF-36A-E-76 92.26689 PB < 0.05 MG/L 11/23/92 PF-36A-E-50' 92.26690 BA 4.1 0.41 MG/L 11/23/92 PF-36A-E-50' 92.26690 CD < 0.01 MG/L 11/23/92 PF-36A-E-50' 92.26690 CR < 0.01 MG/L 11/23/92 V PF-36A-E-50' 92.26690 PB 7.5 0.75 MG/L 11/23/92 PF-36A-E-25' 92.26691 BA 1.61 0.16 MG/L 11/23/92 PF-36A-E-25' 92.26691 CD < 0.01 MG/L 11/23/92 PF-36A-E-25' 92.26691 CR < 0.01 MG/L 11/23/92 PF-36A-E-25' 92.26691 PB < 0.05 MG/L 11/23/92 PF-36A-E-10' 92.26692 BA 1.5 0.15 MG/L 11/23/92 PF-36A-E-10' 92.26692 CD < 0.01 MG/L 11/23/92 PF-36A-E-10' 92.26692 CR < 0.01 MG/L 11/23/92 PF-36A-E-10' 92.26692 PB < 0.05 MG/L 11/23/92 PF-36A-E-5' 92.26693 BA 1.84 0.18 MG/L 11/23/92 PF-36A-E-5/ 92.26693 CD < 0.01 MG/L 11/23/92 PF-36A-E-5' 92.26693 CR < 0.01 MG/L 11/23/92 PF-36A-E-5' 92.26693 PB < 0.05 MG/L 11/23/92 PF-36A-N-100 92.26694 BA 2.28 0.23 MG/L 11/23/92 PF-36A-N-100 92.26694 CD < 0.01 MG/L 11/23/92 PF-36A-N-100 92.26694 CR < 0.01 MG/L 11/23/92 PF-36A-N-100 92.26694 PB < 0.05 MG/L 11/23/92 PF-36A-N-50' 92.26695 BA 2.74 0.27 MG/L 11/23/92 PF-36A-N-50' 92.26695 CD < 0.01 MG/L 11/23/92 PF-36A-N-50' 92.26695 CR < 0.01 MG/L 11/23/92 PF-36A-N-50' 92.26695 PB < 0.05 MG/L 11/23/92 PF-36A-N-25' 92.26696 BA 1.18 0.12 MG/L 11/23/92 PF-36A-N-25' 92.26696 CD < 0.01 MG/L 11/23/92 PF-36A-N-25' 92.26696 CR < 0.01 MG/L 11/23/92 PF-36A-N-25' 92.26696 PB < 0.05 MG/L 11/23/92 PF-36A-N-10R 92.26697 BA 0.64 0.06 MG/L 11/23/92 PF-36A-N-10R 92.26697 CD < 0.01 MG/L 11/23/92 PF-36A-N-10R 92.26697 CR < 0.01 MG/L 11/23/92 PF-36A-N-10R 92.26697 PB < 0.05 MG/L 11/23/92 PF-36A-N-10' 92.26698 BA 0.61 0.06 MG/L 11/23/92 PF-36A-N-10' 92.26698 CD < 0.01 MG/L 11/23/92 PF-36A-N-10' 92.26698 CR < 0.01 MG/L 11/23/92 PF-36A-N-10' 92.26698 PB < 0.05 MG/L 11/23/92 PF-36A-N-5' 92.26699 BA 1.9 0.19 MG/L 11/23/92 PF-36A-N-5' 92.26699 CD < 0.01 MG/L 11/23/92 PF-36A-N-5' 92.26699 CR < 0.01 MG/L 11/23/92 PF-36A-N-5' 92.26699 PB < 0.05 MG/L 11/23/92

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> 5mg/L

14.<sub>12</sub>

| REPORT | NUMBER:   | 16067    | (continued) |                                        |                    |
|--------|-----------|----------|-------------|----------------------------------------|--------------------|
|        |           |          | ****        | EM-9 QUALITY ASSURANCE REPORT ******** |                    |
|        |           |          | Prepared by | : JDMORGAN on 24-Nov-1992              |                    |
| REQUES | T NUMBER: | 13437    | MATRIX: SE  | ANALYST: JANET MORGAN                  | PROGRAM CODE: M106 |
| OWNER: | Philip    | R. Fresq | uez GROUP   | : EM-8 MAIL-STOP: K490 PHONE: 7-0815   |                    |
| NOTEBO | ок: R81   | 49 PAGI  | E: 43       |                                        |                    |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QQ    | QC          | COMPLETION |               |
|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |
| 00.20193 | BA       | 10.8       | 1.1         | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |
| 00.20193 | BA       | 10.1       | 1.          | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |
| 00.20193 | CD       | 9.15       | 0.92        | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |
| 0.20193  | CD       | 10.        | 1.          | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |
| 0.20193  | CR       | 10.3       | 1.          | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |
| 00.20193 | CR       | 9.89       | 0.99        | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |
| 00.20193 | PB       | 10.9       | 1.1         | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |
| 00.20193 | PB       | 12.9       | 1.3         | MG/L  | 10.   | 1.          | 11/23/92   | UNDER CONTROL |

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | ac          | COMPLETION |               |
|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |
| 92.26733 | ВА       | 2.79       | 0.28        | MG/L  | 2.8   | 0.1         | 11/23/92   | UNDER CONTROL |
| 92.26733 | CD       | 0.28       | 0.03        | MG/L  | 0.28  | 0.01        | 11/23/92   | UNDER CONTROL |
| 92.26733 | CR       | 7.32       | 0.73        | MG/L  | 7.2   | 0.3         | 11/23/92   | UNDER CONTROL |
| 92.26733 | P8       | 21.8       | 2.2         | MG/L  | 20.9  | 0.9         | 11/23/92   | UNDER CONTROL |
| 92.26734 | BA       | 2.79       | 0.28        | MG/L  | 2.8   | 0.1         | 11/23/92   | UNDER CONTROL |
| 92.26734 | CD       | 0.28       | 0.03        | MG/L  | 0.28  | 0.01        | 11/23/92   | UNDER CONTROL |
| 92.26734 | CR       | 7.36       | 0.74        | MG/L  | 7.2   | 0.3         | 11/23/92   | UNDER CONTROL |
| 92.26734 | РВ       | 22.        | 2.2         | MG/L  | 20.9  | 0.9         | 11/23/92   | UNDER CONTROL |

PEPORT NUMBER: 16067

<u>JOMINIQUE PEC</u> <u>Analyst</u> <u>Reviewer</u> <u>1/24/92</u> <u>1/24/92</u> <u>1/24/92</u> <u>1/24/92</u> <u>1/24/92</u> <u>1/25/92</u>

|                            | Date                 | Date        | Date | Date |
|----------------------------|----------------------|-------------|------|------|
| າ Sample Discrepancies Not | ed by Sample Managem | ent Section |      |      |
| be control status of the w |                      |             |      |      |

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The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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| REPORT NUMBE  | R: 16055            |             | 36.45.<br>jeur 1 | ŚŊ              |           |                 | Page:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|---------------------|-------------|------------------|-----------------|-----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                     | ***         | ****** EM-       | -9 ANALYTICAL R | EPORT     | *****           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               |                     |             | Prepared by: 1   | BHEMBERGER      | on 23-N   | ov-1992         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ANALYSIS: AG  | REQU                | EST NUMBER: | 13437 M/         | ATRIX: SE A     | NALYST: B | ARBARA HEMBERGE | R PROGRAM CODE: M1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OWNER: Phili  | p R. Fresquez       | GRO         | UP: EM-8         | MAIL-STOP:      | K490 PH   | ONE: 7-0815     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ANALYTICAL TE | CHNIQUE: FAA        | ANA         | LYTICAL PROCEDU  | JRE: 272.1      |           | NOTEBOOK : R    | 7719 PAGE :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|               |                     |             |                  |                 |           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CUSTOMER SAMP | LES:                |             |                  |                 |           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | 0.070455            | 041101 5    |                  |                 | e 6       |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | NUMBER              | NUMBER      | RESULT           | UNCERTAINTY     | UNITS     | DATE            | COMMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|               |                     |             |                  |                 |           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF- <b>36A</b> -0-0 | 92.26677    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-S-100        | 92.26678    | < 10.            |                 | UG/L      | 11/23/92        | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|               | PF-36A-S-50'        | 92.26679    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-S-25'        | 92.26680    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-S-10'        | 92.26681    | < 10.            |                 | UG/L      | 11/23/92        | Å                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|               | PF-36A-S-5'         | 92.26682    | < 10.            |                 | UG/L      | 11/23/92        | $\sim$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|               | PF-36A-W-100        | 92.26683    | < 10.            |                 | UG/L      | 11/23/92        | T. I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|               | PF-36A-W-50'        | 92.26684    | < 10.            |                 | UG/L      | 11/23/92        | ( V State St |
|               | PF-36A-W-25'        | 92.26685    | < 10.            |                 | UG/L      | 11/23/92        | Ť                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|               | PF-36A-W-104        | 92.26686    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-W-54         | 92.26687    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-E-100        | 92.26688    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-E-76         | 92.26689    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-E-50'        | 92.26690    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-E-25'        | 92.26691    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|               | PF-36A-E-10'        | 92.26692    | < 10.            |                 | UG/L      | 11/23/92        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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#### CUSTOMER SAMPLE DUPLICATES:

PF-36A-E-5' 92.26693

PF-36A-N-100 92.26694

PF-36A-N-50' 92.26695

PF-36A-N-25' 92.26696

PF-36A-N-10R 92.26697

PF-36A-N-10' 92.26698

PF-36A-N-5' 92.26699

| CUSTOMER    | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|-------------|----------|------------|-------------|-------|------------|---------|
| NUMBER      | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-36A-0-0  | 92.26677 | < 10.      |             | UG/L  | 11/23/92   |         |
| PF-36A-W-54 | 92.26687 | < 10.      |             | UG/L  | 11/23/92   |         |

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| er<br>Nag |                            | ***                  | ***** EM         | -9 ANALYTICAL R     | REPORT       | ****                 |         |
|-----------|----------------------------|----------------------|------------------|---------------------|--------------|----------------------|---------|
|           | CUSTOMER SAMPLE MATRIX SPI | KES :                |                  |                     |              |                      |         |
|           | CUSTOMER<br>NUMBER         | SAMPLE<br>NUMBER     | AMOUNT<br>SPIKED | AMOUNT<br>RECOVERED | UNITS        | COMPLETION<br>DATE   | COMMENT |
|           | PF-36A-0-0<br>PF-36A-W-51  | 92.26677<br>92.26687 | 50.<br>50.       | 50.<br>47.          | UG/L<br>UG/L | 11/23/92<br>11/23/92 |         |

| REPORT NUM   | BER: 16055 (      | continued)    |              |                   |             |            |               | Page: | 03                         |
|--------------|-------------------|---------------|--------------|-------------------|-------------|------------|---------------|-------|----------------------------|
|              |                   | *****         | EM-9 QUALIT  | Y ASSURANCE REPOR | T ******    | **         |               |       | $\sim - \gamma \dot{\eta}$ |
|              |                   | Prepared by   | : BHEMBERGER | on 23-Nov         | - 1992      | -          |               |       |                            |
| REQUEST NU   | JMBER: 13437      | MATRIX: SE    | ANALYS       | T: BARBARA HEMBE  | RGER        |            | PROGRAM CODE: | ₩106  |                            |
| OWNER: PI    | nilip R. Fresque: | z GROUP       | : EM-8       | MAIL-STOP: K4     | 90 PHONE:   | 7-0815     |               |       |                            |
|              |                   |               |              |                   |             |            |               |       |                            |
|              |                   | OF OPEN (NON- |              |                   |             |            |               |       |                            |
| SUMMART UP   | CUNTRUL STATUS    | UF OPEN (NON- | BLIND) QC SA | THES RUN WITH T   | IIS DATCH   |            |               |       |                            |
| SAMPLE       | ANALYTICAL        | ANALYTICAL    |              | QC                | QC          | COMPLETION |               |       |                            |
| NUM          | RESULT            | UNCERTAINTY   | UNITS        | VALUE             | UNCERTAINTY | DATE       | COMMENT       |       |                            |
| 00.24370     | 466.              | 47.           | UG/L         | 481.              | 21.         | 11/23/92   | UNDER CONTROL |       |                            |
| 00.24370     | 486.              | 49.           | UG/L         | 481.              | 21.         | 11/23/92   | UNDER CONTROL |       |                            |
|              | CONTROL STATUS    | OF BUIND OC S | AMPIES RUN U | ITH THIS BATCH    |             |            |               |       |                            |
| JORINAR 1 OF | CONTROL OTATOS    |               |              |                   |             |            |               |       |                            |
| SAMPLE       | ANALYTICAL        | ANALYTICAL    |              | QC                | QC          | COMPLETION |               |       |                            |
| NUM          | RESULT            | UNCERTAINTY   | UNITS        | VALUE             | UNCERTAINTY | DATE       | COMMENT       |       |                            |

UG/L 802. 34. 11/23/92 UNDER CONTROL 92.26731 795. 76. 17. 11/23/92 UNDER CONTROL 92.26732 401. 40. UG/L 401.

REPORT NUMBER: 16055

14/11/92

<u>Millication</u> Reviewer Section Leader

Date

<u>mag</u> QA Officer

12/11/92 , Date

12-15-92 Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

| REPORT NUMBER: 16263                              | t CLP-US                                                                                    |               | Page: 01           |
|---------------------------------------------------|---------------------------------------------------------------------------------------------|---------------|--------------------|
|                                                   | ******** EM-9 ANALYTICAL REPORT **********                                                  |               |                    |
|                                                   | Prepared by: BHEMBERGER on 10-Dec-1992                                                      |               |                    |
| ANALYSIS: AS REQUEST<br>OWNER: Philip R. Fresquez | NUMBER: 13437 MATRIX: SE ANALYST: MICHAEL BELL<br>GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815 |               | PROGRAM CODE: M106 |
| ANALYTICAL TECHNIQUE: ETVAA                       | ANALYTICAL PROCEDURE: 206.2 NOTEBOOK:                                                       | Y004330 PAGE: |                    |

#### CUSTOMER SAMPLES:

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| CUSTOMER     | SAMPLE   | ANALYTICAL | ANALYTICAL  | peb   |          |         |
|--------------|----------|------------|-------------|-------|----------|---------|
| NUMBER       | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE     | COMMENT |
| PF-36A-0-0   | 92.26677 | 4.5        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-S-100 | 92.26678 | 2.9        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-S-50' | 92.26679 | 2.5        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-S-25' | 92.26680 | 2.4        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-S-10' | 92.26681 | 2.7        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-S-5'  | 92.26682 | 2.3        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-W-100 | 92.26683 | 2.5        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-W-50' | 92.26684 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-W-25' | 92.26685 | 2.3        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-W-10' | 92.26686 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-W-5'  | 92.26687 | 2.3        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-E-100 | 92.26688 | 4.4        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-E-76  | 92.26689 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-E-50' | 92.26690 | 19.6       | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-E-25' | 92.26691 | 3.1        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-E-10' | 92.26692 | 2.1        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-E-5/  | 92.26693 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-N-100 | 92.26694 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-N-50' | 92.26695 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-N-25' | 92.26696 | 2.4        | 2.          | UG/L  | 11/25/92 |         |
| PF-36A-N-10R | 92.26697 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-N-10' | 92.26698 | < 2.       |             | UG/L  | 11/25/92 |         |
| PF-36A-N-54  | 92.26699 | 2.8        | 2.          | UG/I  | 11/25/92 |         |
|              |          |            |             |       |          |         |

< 5 mg/L

#### CUSTOMER SAMPLE DUPLICATES:

| CUSTOMER    | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|-------------|----------|------------|-------------|-------|------------|---------|
| NUMBER      | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-36A-0-0  | 92.26677 | 3.9        | 2.          | UG/L  | 11/25/92   |         |
| PF-36A-W-51 | 92.26687 | 2.6        | 2.          | UG/L  | 11/25/92   |         |

|                    |                 | ****     | ***** EM | -9 ANALYTICAL R | EPORT * | ****       |         |  |
|--------------------|-----------------|----------|----------|-----------------|---------|------------|---------|--|
| CUSTOMER SAMPLE MA | TRIX SPIR       | (ES :    |          |                 |         |            |         |  |
| CU                 | STOMER          | SAMPLE   | AMOUNT   | AMOUNT          |         | COMPLETION |         |  |
| N                  | UMBER           | NUMBER   | SPIKED   | RECOVERED       | UNITS   | DATE       | COMMENT |  |
| PF-3               | 6 <b>A</b> -0-0 | 92.26677 | 100.     | 115.            | UG/L    | 11/25/92   |         |  |
| PF-3               | 6A-W-5/         | 92.26687 | 100.     | 116.            | UG/L    | 11/25/92   |         |  |

|                                                                                          |                                                                                                         | ********                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EM-9 QUALI                                                | TY ASSURANCE REP                                                                                                                                   | ORT ******                                                                                | **                                                                          |                                                                                                                                        |       |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------|
|                                                                                          |                                                                                                         | Prepared by                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | : BHEMBERGE                                               | R on 10-D                                                                                                                                          | ec-1992                                                                                   |                                                                             |                                                                                                                                        |       |
| QUEST NU                                                                                 | MBER: 13437                                                                                             | MATRIX: SE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ANALY                                                     | 'ST: MICHAEL BEL                                                                                                                                   | L                                                                                         |                                                                             | PROGRAM CO                                                                                                                             | DE: M |
| NER: Ph                                                                                  | iilip R. Fresque                                                                                        | z GROUP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | : EM-8                                                    | MAIL-STOP:                                                                                                                                         | K490 PHONE:                                                                               | 7-0815                                                                      |                                                                                                                                        |       |
| MMARY OF                                                                                 | CONTROL STATUS                                                                                          | OF OPEN (NON-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BLIND) QC S                                               | AMPLES RUN WITH                                                                                                                                    | THIS BATCH                                                                                |                                                                             |                                                                                                                                        |       |
| SAMPLE<br>NUM                                                                            | ANALYTICAL<br>RESULT                                                                                    | ANALYTICAL<br>UNCERTAINTY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNITS                                                     | QC<br>VALUE                                                                                                                                        | QC<br>UNCERTAINTY                                                                         | COMPLETION<br>DATE                                                          | COMMENT                                                                                                                                |       |
|                                                                                          |                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                           |                                                                                                                                                    | _                                                                                         |                                                                             |                                                                                                                                        |       |
| 0.26379<br>0.26379<br>MMARY OF                                                           | 71.7<br>65.5<br>CONTROL STATUS                                                                          | 14.<br>14.<br><u>5 of Blind QC S</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/L<br>UG/L<br>Amples run                                | 70.<br>70.<br><u>With This Batch</u>                                                                                                               | 3.<br>3.                                                                                  | 11/25/92<br>11/25/92                                                        | UNDER CONTROL                                                                                                                          |       |
| 0.26379<br>0.26379<br>MMARY OF<br>AMPLE<br>NUM                                           | 71.7<br>65.5<br><u>CONTROL STATUS</u><br>ANALYTICAL<br>RESULT                                           | 14.<br>14.<br><u>OF BLIND QC S</u><br>ANALYTICAL<br>UNCERTAINTY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UG/L<br>UG/L<br>AMPLES RUN<br>UNITS                       | 70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE                                                                                                       | 3.<br>3.<br>QC<br>UNCERTAINTY                                                             | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE                                  | UNDER CONTROL                                                                                                                          |       |
| .26379<br>.26379<br>MMARY OF<br>AMPLE<br>NUM<br>.26735                                   | 71.7<br>65.5<br><u>CONTROL STATUS</u><br>ANALYTICAL<br>RESULT<br>54.3                                   | 14.<br>14.<br><u>S OF BLIND QC S</u><br>ANALYTICAL<br>UNCERTAINTY<br>5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UG/L<br>UG/L<br>AMPLES RUN<br>UNITS<br>UG/L               | 70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE<br>60.                                                                                                | GC<br>UNCERTAINTY<br>3.                                                                   | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE<br>11/25/92                      | COMMENT                                                                                                                                |       |
| MMARY OF<br>AMPLE<br>NUM<br>.26735<br>.26736                                             | 71.7<br>65.5<br>CONTROL STATUS<br>ANALYTICAL<br>RESULT<br>54.3<br>12.5                                  | 14.<br>14.<br>OF BLIND QC S<br>ANALYTICAL<br>UNCERTAINTY<br>5.<br>2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/L<br>UG/L<br>AMPLES RUN<br>UNITS<br>UG/L<br>UG/L       | 70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE<br>60.<br>14.                                                                                         | 3.<br>3.<br>UNCERTAINTY<br>3.<br>0.6                                                      | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE<br>11/25/92<br>11/25/92          | COMMENT<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL                                                                             |       |
| 0.26379<br>0.26379<br>MMARY OF<br>AMPLE<br>NUM<br>0.26735<br>0.26736<br>PORT NUM         | 71.7<br>65.5<br>CONTROL STATUS<br>ANALYTICAL<br>RESULT<br>54.3<br>12.5<br>BER: 16263                    | 14.<br>14.<br><u>S OF BLIND QC S</u><br>ANALYTICAL<br>UNCERTAINTY<br>5.<br>2.<br><u>74</u> . <del>2</del> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UG/L<br>UG/L<br>AMPLES RUN<br>UNITS<br>UG/L<br>UG/L       | 70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE<br>60.<br>14.                                                                                         | 3.<br>3.<br>UNCERTAINTY<br>3.<br>0.6                                                      | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE<br>11/25/92<br>11/25/92          | COMMENT<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>MARY                                                                     |       |
| 0.26379<br>0.26379<br>MMARY OF<br>AMPLE<br>NUM<br>2.26735<br>2.26736                     | 71.7<br>65.5<br>CONTROL STATUS<br>ANALYTICAL<br>RESULT<br>54.3<br>12.5<br>BER: 16263                    | 14.<br>14.<br>3 OF BLIND QC S<br>ANALYTICAL<br>UNCERTAINTY<br>5.<br>2.<br>2.<br><u>J. P.</u><br>Analyst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UG/L<br>UG/L<br>AMPLES RUN<br>UNITS<br>UG/L<br>UG/L       | 70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE<br>60.<br>14.<br>M-4<br>Reviewer                                                                      | ac<br>UNCERTAINTY<br>3.<br>0.6<br><u>Ona</u><br>Section Lea                               | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE<br>11/25/92<br>11/25/92<br>der Q | COMMENT<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>MAGY<br>A Officer                                       |       |
| 0.26379<br>0.26379<br>0.26379<br>0.26379<br>SAMPLE<br>NUM<br>2.26735<br>2.26736          | 71.7<br>65.5<br>CONTROL STATUS<br>ANALYTICAL<br>RESULT<br>54.3<br>12.5<br>BER: 16263                    | 14.<br>14.<br>14.<br>OF BLIND QC S<br>ANALYTICAL<br>UNCERTAINTY<br>5.<br>2.<br>$\frac{1}{2}$ , $\frac{1}{2}$ , $\frac{10}{9}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UG/L<br>UG/L<br>AMPLES RUN<br>UNITS<br>UG/L<br>UG/L       | 70.<br>70.<br>70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE<br>60.<br>14.<br>60.<br>14.<br>14.<br><u>70.4</u><br>Reviewer                           | 3.<br>3.<br>UNCERTAINTY<br>3.<br>0.6<br><u>OTA</u><br>Section Lea<br><u>12 /11/C</u>      | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE<br>11/25/92<br>11/25/92<br>der Q | COMMENT<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>MAGY<br>A Officer<br>12 -/5 -92                         |       |
| 0.26379<br>0.26379<br>MMARY OF<br>AMPLE<br>NUM<br>2.26735<br>2.26736                     | 71.7<br>65.5<br>CONTROL STATUS<br>ANALYTICAL<br>RESULT<br>54.3<br>12.5<br>BER: 16263                    | 14.<br>14.<br>14.<br>OF BLIND QC S<br>ANALYTICAL<br>UNCERTAINTY<br>5.<br>2.<br>$\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}, \frac$ | UG/L<br>UG/L<br>AMPLES RUN<br>UNITS<br>UG/L<br>UG/L       | 70.<br>70.<br>70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE<br>60.<br>14.<br>60.<br>14.<br>14.<br><u>70.4</u><br>Reviewer<br><u>12.0192</u><br>Date | 3.<br>3.<br>UNCERTAINTY<br>3.<br>0.6<br><u>Ona</u><br>Section Lea<br><u>Jula</u>          | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE<br>11/25/92<br>11/25/92<br>der Q | COMMENT<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>Mag<br>A Officer<br>12 -15 -92<br>Date |       |
| 26379<br>2.26379<br>MMARY OF<br>AMPLE<br>NUM<br>2.26735<br>2.26736<br>PORT NUM<br>Sample | 71.7<br>65.5<br>CONTROL STATUS<br>ANALYTICAL<br>RESULT<br>54.3<br>12.5<br>BER: 16263<br>Discrepancies N | 14.<br>14.<br>14.<br>OF BLIND QC S<br>ANALYTICAL<br>UNCERTAINTY<br>5.<br>2.<br>$\frac{12}{10/9}$<br>Date<br>loted by Sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | UG/L<br>UG/L<br>UNITS<br>UG/L<br>UG/L<br>22<br>Management | 70.<br>70.<br>70.<br>70.<br>WITH THIS BATCH<br>QC<br>VALUE<br>60.<br>14.<br>60.<br>14.<br>14.<br><u>70.4</u><br>Reviewer<br><u>12.019</u><br>Date  | 3.<br>3.<br>UNCERTAINTY<br>3.<br>0.6<br><u>Ona</u><br>Section Lea<br><u>Julic</u><br>Date | 11/25/92<br>11/25/92<br>COMPLETION<br>DATE<br>11/25/92<br>11/25/92<br>der Q | COMMENT<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>UNDER CONTROL<br>Mag<br>A Officer<br>12 -/5 -92<br>Date                  |       |

REPORT NUMBER: 16263 (continued)

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| REPORT NUMBER: 15652                                   | -CUP-HAY Page:                        | 01 |
|--------------------------------------------------------|---------------------------------------|----|
| ****** EM-9 ANALYTICAL REP                             | ORT *******                           |    |
| Prepared by: J. HANMER                                 | on 26-Oct-1992                        |    |
| ANALYSIS: HG REQUEST NUMBER: 13437 MATRIX: SE ANA      | LYST: JOYCE HANMER PROGRAM CODE: M104 | 6  |
| OWNER: Philip R. Fresquez GROUP: EM-8 MAIL-STOP: K4    | 90 PHONE: 7-0815                      |    |
| ANALYTICAL TECHNIQUE: CVAA ANALYTICAL PROCEDURE: 245.2 | NOTEBOOK: Y04110 PAGE: 185            |    |

| m | FLES:                 |                  |                      |                           | ab    |                    |         |                         |
|---|-----------------------|------------------|----------------------|---------------------------|-------|--------------------|---------|-------------------------|
|   | CUSTOMER<br>NUMBER    | SAMPLE<br>NUMBER | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | COMPLETION<br>DATE | COMMENT | A.L. In Hg<br>(0. 200m) |
|   |                       |                  |                      |                           |       |                    |         |                         |
|   | PF-36A-0-0            | 92.26677         | < 0.1                |                           | UG/L  | 10/23/92           |         | . 200 ppb               |
|   | PF- <b>36A-</b> S-100 | 92.26678         | 1.                   | 0.1                       | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-S-50'          | 92.26679         | < 0.1                |                           | UG/L  | 10/23/92           |         | D D                     |
|   | PF-36A-S-25'          | 92.26680         | < 0.1                |                           | UG/L  | 10/23/92           |         | XV.                     |
|   | PF-36A-S-10'          | 92.26681         | < 0.1                |                           | UG/L  | 10/23/92           |         | mt.                     |
|   | PF-36A-S-5'           | 92.26682         | < 0.1                |                           | UG/L  | 10/23/92           |         | 0 4                     |
|   | PF-36A-W-100          | 92.26683         | < 0.1                |                           | UG/L  | 10/23/92           |         | ·                       |
|   | PF-36A-W-50'          | 92.26684         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-W-25'          | 92.26685         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-W-104          | 92.26686         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-W-5'           | 92.26687         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-E-100          | 92.26688         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF- <b>36A-E-76</b>   | 92.26689         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-E-50'          | 92.26690         | < 0.1                |                           | UG/L  | 10/2 <b>3/92</b>   |         |                         |
|   | PF-36A-E-25'          | 92.26691         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-E-10'          | 92.26692         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-E-5'           | 92.26693         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-N-100          | 92.26694         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-N-50'          | 92.26695         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-N-25'          | 92.26696         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-N-10R          | 92.26697         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-N-10'          | 92.26698         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   | PF-36A-N-5'           | 92.26699         | < 0.1                |                           | UG/L  | 10/23/92           |         |                         |
|   |                       |                  |                      |                           |       |                    |         |                         |

#### CUSTOMER SAMPLE DUPLICATES:

CUSTOMER SAMPLES:

| CUSTOMER     | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|--------------|----------|------------|-------------|-------|------------|---------|
| NUMBER       | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-36A-W-50' | 92.26684 | < 0.1      |             | UG/L  | 10/23/92   |         |
| PF-36A-E-25  | 92.26691 | < 0.1      |             | UG/L  | 10/23/92   |         |

 ${}^{*} \otimes_{\mathbb{C}^{n} \geq 1}$ 

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|                           | *           | ****** | EM-9 ANALYTICAL | REPORT | ****       |         |  |
|---------------------------|-------------|--------|-----------------|--------|------------|---------|--|
| CUSTOMER SAMPLE MATRIX SI | PIKES :     |        | ·               |        |            |         |  |
| CUSTOMER                  | SAMPLE      | AMOUNT | AMOUNT          |        | COMPLETION |         |  |
| NUMBER                    | NUMBER      | SPIKED | RECOVERED       | UNITS  | DATE       | COMMENT |  |
| PF-36A-W-50               | 0' 92.26684 | 2.     | 1.4             | UG/L   | 10/23/92   |         |  |
| PF-36A-E-25               | 5' 92.26691 | 2.     | 1.8             | UG/L   | 10/23/92   |         |  |



REPORT NUMBER: 15652

Analyst

Section Leader

10/27/91

10/87/92

No Sample Discrepancies Noted by Sample Management Section

ne control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4. REPORT NUMBER: 16264

1. William (M. 1997)

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< 1 mg/L

| ******** EM-9 ANALYTICAL REPORT ********* |                       |                            |               |                 |      |  |  |
|-------------------------------------------|-----------------------|----------------------------|---------------|-----------------|------|--|--|
|                                           | Prepared by: BHEMBE   | RGER on 10-Dec-1992        |               |                 |      |  |  |
| ANALYSIS: SE REQUEST NU                   | MBER: 13437 MATRIX:   | SE ANALYST: MICHAEL BELL   |               | PROGRAM CODE: I | M106 |  |  |
| OWNER: Philip R. Fresquez                 | GROUP: EM-8 MAI       | L-STOP: K490 PHONE: 7-0815 |               |                 |      |  |  |
| ANALYTICAL TECHNIQUE: ETVAA               | ANALYTICAL PROCEDURE: | 270.2 NOTEBOOK:            | Y004330 PAGE: |                 |      |  |  |

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#### CUSTOMER SAMPLES:

| CUSTOMER            | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|---------------------|----------|------------|-------------|-------|------------|---------|
| NUMBER              | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF- <b>36A-</b> 0-0 | 92.26677 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-S-100        | 92.26678 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-S-50'        | 92.26679 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-S-25'        | 92.26680 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-S-10'        | 92.26681 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-S-5'         | 92.26682 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-W-100        | 92.26683 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-W-50'        | 92.26684 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-W-25'        | 92.26685 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-W-10'        | 92.26686 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-W-5'         | 92.26687 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-E-100        | 92.26688 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-E-76         | 92.26689 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-E-50'        | 92.26690 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-E-25'        | 92.26691 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-E-10'        | 92.26692 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-E-5'         | 92.26693 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-N-100        | 92.26694 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-N-50'        | 92.26695 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-N-25'        | 92.26696 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-N-10R        | 92.26697 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-N-104        | 92.26698 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-N-54         | 92.26699 | < 2.       |             | UG/L  | 12/09/92   |         |
|                     |          |            |             |       |            |         |

#### CUSTOMER SAMPLE DUPLICATES:

| CUSTOMER            | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|---------------------|----------|------------|-------------|-------|------------|---------|
| NUMBER              | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF- <b>36A-</b> 0-0 | 92.26677 | < 2.       |             | UG/L  | 12/09/92   |         |
| PF-36A-W-5'         | 92.26687 | < 2.       |             | UG/L  | 12/09/92   |         |

 $(x_1,y_2,y_3,\dots,y_{n+1},y_1,y_2,y_3,y_4,y_5,\dots,y_{n+1}) = 0$ 

|                 |            |         | ****   | EM-9 ANALYTICAL | REPORT | ******     |         |
|-----------------|------------|---------|--------|-----------------|--------|------------|---------|
| CUSTOMER SAMPLE | MATRIX SPI | KES :   |        |                 |        |            |         |
|                 | CUSTOMER   | SAMPLE  | AMOUNT | AMOUNT          |        | COMPLETION |         |
|                 | NUMBER     | NUMBER  | SPIKED | RECOVERED       | UNITS  | DATE       | COMMENT |
| PF              | -36A-0-0   | 92.2667 | 7 100. | 100.            | UG/L   | 12/09/92   |         |
| PF              | -36A-W-51  | 92.2668 | 7 100. | 105.            | UG/L   | 12/09/92   |         |

| REPORT NUMBER: 16264 (continued)                                             | Page:        |
|------------------------------------------------------------------------------|--------------|
| ******** EM-9 QUALITY ASSURANCE REPORT ********                              |              |
| Prepared by: BHEMBERGER on 10-Dec-1992                                       |              |
| REQUEST NUMBER: 13437 MATRIX: SE ANALYST: MICHAEL BELL PROGRA                | M CODE: M106 |
| OWNER: Philip R. Fresquez GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815          |              |
|                                                                              |              |
| SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH |              |

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

- \_\_\_\_\_ Only qualitative data requested
- $\checkmark$  Only Blind QC samples run with this sample batch.
- \_\_\_\_ No QC samples run with this sample batch.

\_\_\_\_ No QC samples for this constituent and matrix type available within EM-9

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE<br>NUM        | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS        | QC<br>VALUE | QC<br>UNCERTAINTY | COMPLETION<br>DATE   | COMMENT                        |
|----------------------|----------------------|---------------------------|--------------|-------------|-------------------|----------------------|--------------------------------|
| 92.26735<br>92.26736 | < 2.<br>55.7         | 10.                       | UG/L<br>UG/L | 0.0<br>56.  | 2.                | 12/09/92<br>12/09/92 | UNDER CONTROL<br>UNDER CONTROL |

REPORT NUMBER: 16264

ZI.P. <u>F.H.</u> <u>OTA</u> <u>mag</u> Analyst Reviewer Section Leader QA Officer

03

12/10/92 Date

12/11/92 12/11/92

12-15-92

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

REPORT NUMBER: 15366

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Page: 01

|                    | •       |             | EM-             | Y ANALTIICAL P |            |              |            |                 |
|--------------------|---------|-------------|-----------------|----------------|------------|--------------|------------|-----------------|
|                    |         |             | Prepared by: B  | HEMBERGER      | on 28-Se   | p-1992       |            |                 |
| NALYSIS: AG        | REQUE   | EST NUMBER: | 13501 MA        | TRIXE SE       | NALYST: BA | RBARA HEMBER | ER         | PROGRAM CODE: 1 |
| NUMER, Dhilip P E  |         | GRO         | 10. 405.8       | MATI -STOP     | r/00 PHO   | NE. 7.0815   |            |                 |
| WHER. PRITIPR. P   | esquez  | GRO         | UF. HJE O       | MATE STOP.     | K470 Pho   | NE. 7 0015   |            |                 |
| NALYTICAL TECHNIQU | E: FAA  | ANA         | LYTICAL PROCEDU | RE: 272.1      |            | NOTEBOOK:    | R7719 PAGE | :               |
|                    |         |             |                 |                |            |              |            |                 |
|                    |         |             |                 |                | ١          |              |            |                 |
| USTOMER SAMPLES:   |         |             |                 |                | ~~~~\\/    |              |            |                 |
| CIIS.              |         |             | ANAL YTTCAL     |                | 11.01-     |              |            |                 |
| U3<br>N11          |         | NUMBER      | RESULT          |                | LINITS     | DATE         | COMMENT    |                 |
| NU                 | IDER    | NUMBER      | RESULT          | ORCERTATAT     | \          | DATE         | CONTENT    |                 |
| /PF-361            | 3-W-150 | 92.27448    | < 1.            |                | ug/g       | 9/28/92      |            |                 |
| ✓ PF-36I           | в-е-20  | 92.27449    | 5.4             | 1.             | UG/G       | 9/28/92      | > 5        | pon             |
| PF-36              | 8-E-40  | 92.27450    | < 1.            |                | UG/G       | 9/28/92      |            | J 1             |
| PF-36              | B-E-60  | 92.27451    | < 1.            |                | UG/G       | 9/28/92      |            |                 |
| PF-36              | B-E-100 | 92.27452    | < 1.            |                | UG/G       | 9/28/92      |            |                 |
| PF-36              | в-е-150 | 92.27453    | < 1.            |                | UG/G       | 9/28/92      |            |                 |
| PF-36              | 8-N-20  | 92.27454    | < 1.            |                | UG∕Ģ       | 9/28/92      |            | <b>a</b>        |
| PF-36              | 8-N-40  | 92.27455    | < 1.            |                | ug/p 1     | 9/28/92      | -70        | Viria           |
| PF-36              | B-N-60  | 92.27456    | < 1.            |                | UG/&       | 9/28/92      |            |                 |
| PF-36              | 8-N-100 | 92.27457    | < 1.            |                | UG/G       | 9/28/92      | Ċ          | if and, the     |
| PF-36              | B-N-150 | 92.27458    | < 1.            |                | UG/G       | 9/28/92      |            |                 |
| PF-36              | 3-S-20  | 92.27459    | < 1.            |                | ug/g       | 9/28/92      |            |                 |
| PF-36              | 8-5-40  | 92.27460    | < 1.            |                | ucre       | 9/28/92      |            |                 |
| PF-36              | 3-S-60  | 92.27461    | < 1.            |                | UG/G       | 9/28/92      |            |                 |
| PF-36              | 3-S-100 | 92.27462    | < 1.            |                | nevd       | 9/28/92      |            |                 |
| PF-36              | 8-S-150 | 92.27463    | < 1.            |                | ug/g       | 9/28/92      |            |                 |
| PF-36              | B-SED   | 92.27464    | < 1.            |                | UG/G       | 9/28/92      |            |                 |
| PF-36              | 8-0-0   | 92.27465    | < 1.            |                | UGYG       | 9/28/92      |            |                 |
| PF-36              | 3-E60R  | 92.27466    | < 1.            |                | UGZG       | 9/28/92      |            |                 |
| PF-36              | -RIN    | 92.27468    | < 10.           |                | UG/L       | 9/28/92      |            |                 |
| PF-36              | B-RIN   | 92.27469    | < 10.           |                | UG/L       | 9/28/92      |            |                 |

| CUSTOMER    | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|-------------|----------|------------|-------------|-------|------------|---------|
| NUMBER      | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-368-N-20 | 92.27454 | < 1.       |             | UG/G  | 9/28/92    |         |
| PF-36B-SED  | 92.27464 | < 1.       |             | UG/G  | 9/28/92    |         |

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Sec. 19

|                     |              | *****    | EM-9 ANAL                             | YTICAL REPORT | ******    |         |  |
|---------------------|--------------|----------|---------------------------------------|---------------|-----------|---------|--|
| CUSTOMER SAMPLE MAT | RIX SPIKES : |          | · · · · · · · · · · · · · · · · · · · |               |           |         |  |
| CUS                 | TOMER SAM    | IPLE AMO | UNT AM                                | IOUNT         | COMPLETIO | u l     |  |
| NU                  | MBER NUM     | BER SPI  | KED REC                               | OVERED UN     | ITS DATE  | COMMENT |  |
| PF-36               | B-N-20 92.2  | 7454 10  | 0. 1                                  | 06. UG/L      | 9/28/92   |         |  |
| PF-36               | B-SED 92.2   | 7464 10  | 0. 1                                  | 08. UG/L      | 9/28/92   |         |  |

| REPORT NUMBER:  | 15366     | (continued) |               |               |            |          |            | Page     | : 03 |
|-----------------|-----------|-------------|---------------|---------------|------------|----------|------------|----------|------|
|                 |           | *****       | EM-9 QUALITY  | ASSURANCE REI | PORT ****  | ****     |            |          |      |
|                 |           | Prepared by | 7: BHEMBERGER | on 28-5       | Sep-1992   |          |            | _        |      |
| REQUEST NUMBER: | 13501     | MATRIX: SE  | ANALYST:      | BARBARA HEN   | 1BERGER    |          | PROGRAM CO | DE: M106 |      |
| OWNER: Philip   | R. Fresqu | ez GROUP    | : HSE-8       | MAIL-STOP:    | K490 PHONE | : 7-0815 |            |          |      |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | QC<br>VALUE | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT       |
|---------------|----------------------|---------------------------|-------|-------------|-------------------|--------------------|---------------|
| 92.27516      | 848.                 | 85.                       | UG/L  | 842.        | 36.               | 9/28/92            | UNDER CONTROL |
| ?.27517       | 848.                 | 85.                       | UG/L  | 842.        | 36.               | 9/28/92            | UNDER CONTROL |

REPORT NUMBER: 15366

 $\begin{array}{c|c} \hline & \mathcal{B}^{-\frac{1}{4}} \\ \hline & \mathsf{Analyst} \\ \hline & \mathsf{Reviewer/} \\ \hline & \mathsf{G}/\mathcal{A} \otimes [G] \\ \hline & \mathsf{Date} \\ \end{array} \begin{array}{c} \mathcal{B}^{-\frac{1}{4}} \\ \mathcal{B}^{-\frac{1$ 

No Sample Discrepancies Noted by Sample Management Section

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The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986, 'LA-11114-MS, pp. 3-4.

| REPORT NU  | MBER: 15281         |             | TCL             | As             | tt        |             |             | Page: 01                                                                                           |
|------------|---------------------|-------------|-----------------|----------------|-----------|-------------|-------------|----------------------------------------------------------------------------------------------------|
|            |                     | ***         | ***** EM-'      | 9 ANALYTICAL R | EPORT     | *****       |             | · · · · · · · · · · · · · · · · · · ·                                                              |
|            |                     |             | Prepared by: H  | . PATTERSON    | on 21-S   | ep-1992     |             |                                                                                                    |
| ANALYSIS:  | AS REQUE            | EST NUMBER: | 13501 MA        |                | NALYST: M | ICHAEL BELL |             | PROGRAM CODE: M106                                                                                 |
|            | ilin P Freemuez     | cen         | NID. HSE-8      |                | K70U DH   | ONE+ 7-0815 |             |                                                                                                    |
| UWNER: PI  | TTEP K. TTESQUEZ    | GRO         | Nr. HJL-U       | MALL STOP.     | K470 PH   | UNC. 1 0015 |             |                                                                                                    |
| ANALYTICAL | TECHNIQUE: ETV      | A ANA       | LYTICAL PROCEDU | RE: 206.2      |           | NOTEBOOK: Y | 004330 PAGE | : 47                                                                                               |
|            |                     |             |                 |                | ١.        |             |             |                                                                                                    |
| CUSTOMER S | AMPLES:             |             |                 |                |           | /           |             |                                                                                                    |
|            | CUSTOMER            | SAMPLE      | ANALYTICAL      | ANALYTICAL     | (mg)      | COMPLETION  |             |                                                                                                    |
|            | NUMBER              | NUMBER      | RESULT          | UNCERTAINTY    | UNITS     | DATE        | COMMENT     |                                                                                                    |
|            | DE-348-U-20         | 02 27444    | 1 42            | 0.28           | 1         | 9/18/92     |             |                                                                                                    |
|            | PF-368-W-40         | 92.27445    | 1.41            | 0.28           |           | 9/18/92     |             |                                                                                                    |
|            | PF-368-W-60         | 92.27446    | 1.92            | 0.38           | UG/G      | 9/18/92     |             | 1-1-1                                                                                              |
|            | PF-368-W-100        | 92.27447    | 1.36            | 0.27           | UG/G      | 9/18/92     | $\leq$      | Sincl                                                                                              |
|            | PF-368-W-150        | 92.27448    | 1.48            | 0.29           | UG/G)     | 9/18/92     |             | ) inga                                                                                             |
|            | ✓ PF-368-E-20       | 92.27449    | 7.39            | 1.48           | UG/G/     | 9/18/92 ->  | 5 ppm       |                                                                                                    |
|            | PF-368-E-40         | 92.27450    | 1.1             | 0.22           | UG//G     | 9/18/92     |             |                                                                                                    |
|            | PF-36B-E-60         | 92.27451    | 1.13            | 0.23           | UC/G      | 9/18/92     | S.C.        | - A                                                                                                |
|            | PF-36B-E-100        | 92.27452    | 1.23            | 0.25           | UG/G      | 9/18/92     | TIC         | /                                                                                                  |
|            | PF-368-E-150        | 92.2/455    | 2.81            | 0.56           |           | 9/18/92     | V           | SPA                                                                                                |
|            | PF-368-N-20         | 92.2/454    | 1.70            | 0.35           |           | 9/18/92     |             |                                                                                                    |
|            | PF-308-N-40         | 92.21455    | 0.08            | 0.5            |           | 9/18/92     | L' Vi       | my the work                                                                                        |
|            | PF-368-N-100        | 92 27457    | 1,14            | 0.22           |           | 9/18/92     | 0.          |                                                                                                    |
|            | PF-368-N-150        | 92.27458    | 1.88            | 0.38           | UGIG      | 9/18/92     |             | 1 TIN                                                                                              |
|            | PF-36B-S-20         | 92.27459    | 1.17            | 0.23           | UG/G      | 9/18/92     |             | $+ \cup \cup$ |
|            | PF-36B-S-40         | 92.27460    | 1.09            | 0.22           | UG/G      | 9/18/92     | C           |                                                                                                    |
|            | PF-368-S-60         | 92.27461    | 0.99            | 0.2            | μσχα      | 9/18/92     |             |                                                                                                    |
|            | PF-368-S-100        | 92.27462    | 1.61            | 0.32           | UGAG      | 9/18/92     |             |                                                                                                    |
|            | PF-368-S-150        | 92.27463    | 1.38            | 0.28           | UGYG      | 9/18/92     |             |                                                                                                    |
|            | PF- <b>368-SE</b> D | 92.27464    | 2.              | 0.4            | UC/G      | 9/18/92     |             |                                                                                                    |
|            | PF- <b>368</b> -0-0 | 92.27465    | 1.8             | 0.36           | u¢/d      | 9/18/92     |             |                                                                                                    |
|            | PF-368-E60R         | 92.27466    | 1.23            | 0.24           | UG/G      | 9/18/92     |             |                                                                                                    |
|            | PF-36A-RIN          | 92.27468    | < 2.            |                | UG/L      | 9/18/92     |             |                                                                                                    |
|            | DE-368-DIN          | 02 27660    | ~ 2             |                | LIC /I    | 0/18/02     |             |                                                                                                    |

### CUSTOMER SAMPLE DUPLICATES:

| CUSTOMER    | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|-------------|----------|------------|-------------|-------|------------|---------|
| NUMBER      | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-368-W-20 | 92.27444 | 1.3        | 0.26        | UG/G  | 9/18/92    |         |
| PF-368-W-40 | 92.27445 | 1.36       | 0.27        | UG/G  | 9/18/92    |         |

\*\*\*\*\*\*\*\*\* EM-9 ANALYTICAL REPORT \*\*\*\*\*\*\*\*\*

CUSTOMER SAMPLE DUPLICATES (continued):

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| CUSTOMER     | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|--------------|----------|------------|-------------|-------|------------|---------|
| NUMBER       | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-368-W-60  | 92.27446 | 1.92       | 0.38        |       | 9/18/92    |         |
| PF-368-W-100 | 92.27447 | 1.34       | 0.27        | UG/G  | 9/18/92    |         |
| PF-368-W-150 | 92.27448 | 1.36       | 0.27        | UG/G  | 9/18/92    |         |
| PF-368-E-20  | 92.27449 | 7.33       | 1.47        | UG/G  | 9/18/92    |         |
| PF-368-E-40  | 92.27450 | 1.08       | 0.22        | UG/G  | 9/18/92    |         |
| PF-368-E-60  | 92.27451 | 1.07       | 0.21        | UG/G  | 9/18/92    |         |
| PF-368-E-100 | 92.27452 | 1.18       | 0.24        | UG/G  | 9/18/92    |         |
| PF-368-E-150 | 92.27453 | 2.68       | 0.54        | UG/G  | 9/18/92    |         |
| PF-368-N-20  | 92.27454 | 1.37       | 0.27        | UG/G  | 9/18/92    |         |
| PF-368-N-40  | 92.27455 | 1.47       | 0.29        | UG/G  | 9/18/92    |         |
| PF-368-N-60  | 92.27456 | 0.94       | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-N-100 | 92.27457 | 1.         | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-N-150 | 92.27458 | 1.85       | 0.37        | UG/G  | 9/18/92    |         |
| PF-368-S-20  | 92.27459 | 1.03       | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-S-40  | 92.27460 | 1.02       | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-S-60  | 92.27461 | 0.93       | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-S-100 | 92.27462 | 1.6        | 0.32        | UG/G  | 9/18/92    |         |
| PF-368-S-150 | 92.27463 | 1.33       | 0.27        | UG/G  | 9/18/92    |         |
| PF-36B-SED   | 92.27464 | 1.85       | 0.37        | UG/G  | 9/18/92    |         |
| PF-368-0-0   | 92.27465 | 1.77       | 0.35        | UG/G  | 9/18/92    |         |
| PF-368-E60R  | 92.27466 | 1.21       | 0.24        | UG/G  | 9/18/92    |         |
| PF-36A-RIN   | 92.27468 | < 2.       |             | UG/L  | 9/18/92    |         |
| PF-368-RIN   | 92.27469 | < 2.       |             | UG/L  | 9/18/92    |         |

| Page: | 03 |
|-------|----|
|-------|----|

|              |                | *        | ****   | EM-9 ANALYTICAL | REPORT | *****      |         |  |
|--------------|----------------|----------|--------|-----------------|--------|------------|---------|--|
| CUSTOMER SAM | PLE MATRIX SPI | KES :    |        |                 |        |            |         |  |
|              | CUSTOMER       | SAMPLE   | AMOUNT | AMOUNT          |        | COMPLETION |         |  |
|              | NUMBER         | NUMBER   | SPIKED | RECOVERED       | UNITS  | DATE       | COMMENT |  |
|              | PF-368-W-20    | 92.27444 | 100.   | 109.            | UG/L   | 9/18/92    |         |  |
|              | PF-368-N-20    | 92.27454 | 100.   | 104.4           | UG/L   | 9/18/92    |         |  |
|              | PF-368-SED     | 92.27464 | 100.   | 85.             | UG/L   | 9/18/92    |         |  |

| REPORT NUMBE  | R: 15281 (           | (continued)               |                     |                  |                   |                    |               | Page: | C |
|---------------|----------------------|---------------------------|---------------------|------------------|-------------------|--------------------|---------------|-------|---|
|               |                      | ******                    | EM-9 QUALIT         | Y ASSURANCE REP  | DRT ******        | **                 |               |       |   |
|               |                      | Prepared by               | : H. PATTERS        | ON on 21-S       | ep- 1992          |                    |               |       |   |
| REQUEST NUMB  | ER: 13501            | MATRIX: SE                | ANALYS              | T: MICHAEL BELI  | L                 |                    | PROGRAM CODE: | M106  |   |
| OWNER: Phil   | ip R. Fresque        | z GROUP                   | : HSE-8             | MAIL-STOP: 1     | (490 PHONE:       | 7-0815             |               |       |   |
|               |                      |                           |                     |                  |                   |                    |               |       |   |
| SUMMARY OF CI | ONTROL STATUS        | OF OPEN (NON-I            | <u>BLIND) QC SA</u> | MPLES RUN WITH 1 | THIS BATCH        |                    |               |       |   |
| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS               | QC<br>VALUE      | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT       |       |   |
| 00.24357      | 60.7                 | 12.                       | UG/L                | 70.              | 3.                | 9/18/92            | UNDER CONTROL |       |   |
| SUMMARY OF CO | ONTROL STATUS        | OF BLIND QC SA            | MPLES RUN W         | ITH THIS BATCH   |                   |                    |               |       |   |
| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS               | QC<br>VALUE      | QC<br>UNCERTAINTY | COMPLETION         | COMMENT       |       |   |
| 2.27518       | 21.2                 | 4.2                       | UG/L                | 24.              | 1.                | 9/18/92            | UNDER CONTROL |       |   |
| 2.27519       | 47.                  | 9.4                       | UG/L                | 50.              | 2.2               | 9/18/92            | UNDER CONTROL |       |   |
|               | 8: 15281             | V.P.                      |                     | 37H              | (Ma               |                    | maa           |       |   |
|               |                      | Apalvet                   |                     | Poviouon         |                   |                    |               |       |   |

9/21/92

Date

<u>/0/19/9/</u> Date

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10/29/92 Date

No Sample Discrepancies Noted by Sample Management Section

10.20 W. Sale

Willey.

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

12/26/92

| REPORT NUM   | BER: 15280      | 363         | For               | f K          | ol-        |             |               | Pag           | ge: 01           |
|--------------|-----------------|-------------|-------------------|--------------|------------|-------------|---------------|---------------|------------------|
|              |                 | **1         | ****** EM-S       | ANALYTICAL F | REPORT     | ****        |               |               | 1997 <b>- 19</b> |
|              |                 |             | Prepared by: H.   | . PATTERSQN  | on 21-56   | ep-1992     |               |               |                  |
| ANALYSIS: S  | SE REQU         | EST NUMBER: | : 13501 MA1       | IRIX: SE     | ANALYST: M | ICHAEL BELL |               | PROGRAM CODE: | M106             |
| OWNER: Phil  | lip R. Fresquez | GRC         | OUP: HSE-8        | MAIL-STOP:   | K490 PH    | ONE: 7-0815 |               |               |                  |
|              |                 |             |                   | vr. 270 2    |            | NOTEBOOK    | ¥00/330 DACE  |               |                  |
| ANALYTICAL   | TECHNIQUE: EIV  | A ANA       | ALTIICAL PROCEDUR | (E: 2/0.2    |            | NUTEBOOK:   | TUU4330 PAGE: | ; <b>4</b> 7  |                  |
|              |                 |             |                   |              |            | ,           |               |               |                  |
| COSTONER SAR | nr LEJ.         |             |                   |              | mal        | ,<br>,      |               |               |                  |
|              | CUSTOMER        | SAMPLE      | ANALYTICAL        | ANALYTICAL   |            | COMPLETION  |               |               |                  |
|              | NUMBER          | NUMBER      | RESULT            | UNCERTAINTY  | UNITS      | DATE        | COMMENT       |               |                  |
|              | DE-368-4-20     | 92 27666    | < 0.2             |              | ueze       | 9/18/92     |               |               |                  |
|              | PF-368-W-40     | 92.27445    | 0.2               | 0.2          |            | 9/18/92     |               |               |                  |
|              | PE-368-W-60     | 92.27446    | 0.26              | 0.2          | HG/G       | 9/18/92     |               |               |                  |
|              | PF-368-W-100    | 92.27447    | < 0.2             |              | ug)g       | 9/18/92     |               |               |                  |
|              | PF-368-W-150    | 92.27448    | 0.22              | 0.2          | UG/G       | 9/18/92     |               | 1 -           |                  |
|              | PF-368-E-20     | 92.27449    | 0.43              | 0.2          | UG/G       | 9/18/92     | $\leq 1$      | 181-          |                  |
|              | PF-368-E-40     | 92.27450    | 0.21              | 0.2          | UGXa       | 9/18/92     |               | hma)          |                  |
|              | PF-36B-E-60     | 92.27451    | < 0.2             |              | UG/G)      | 9/18/92     | ζ.            | 17.01         | an bhag          |
|              | PF-36B-E-100    | 92.27452    | < 0.2             |              | UG/ø       | 9/18/92     | 1             |               |                  |
|              | PF-368-E-150    | 92.27453    | 0.29              | 0.2          | UG/IG      | 9/18/92     |               |               |                  |
|              | PF-368-N-20     | 92.27454    | < 0.2             |              | yg/g       | 9/18/92     | M             |               |                  |
|              | PF-368-N-40     | 92.27455    | < 0.2             |              | /UG/G      | 9/18/92     | 1             |               |                  |
|              | PF-368-N-60     | 92.27456    | < 0.2             |              | UG/G       | 9/18/92     |               |               |                  |
|              | PF-36B-N-100    | 92.27457    | 0.2               | 0.2          | UG/G       | 9/18/92     |               |               |                  |
|              | PF-368-N-150    | 92.27458    | 0.23              | 0.2          | UG/s       | 9/18/92     |               |               |                  |
|              | PF-36B-S-20     | 92.27459    | < 0.2             |              | UG//G      | 9/18/92     |               |               |                  |
|              | PF-368-S-40     | 92.27460    | < 0.2             |              | yg/g       | 9/18/92     |               |               |                  |
|              | PF-36B-S-60     | 92.27461    | < 0.2             |              | /ug/g      | 9/18/92     |               |               |                  |
|              | PF-36B-S-100    | 92.27462    | 0.2               | 0.2          | / UG/G     | 9/18/92     |               |               |                  |
|              | PF-36B-S-150    | 92.27463    | 0.2               | 0.2          | UG/G       | 9/18/92     |               |               |                  |
|              | PF-368-SED      | 92.27464    | < 0.2             |              | -uc/c      | 9/18/92     |               |               |                  |
|              | PF-368-0-0      | 92.27465    | < 0.2             |              | ndeve      | 9/18/92     |               |               |                  |
|              | PF-368-E60R     | 92.27466    | < 0.2             |              | U¢/G       | 9/18/92     |               |               |                  |
|              | PF-36A-RIN      | 92.27468    | < 2.              |              | U¢/L       | 9/18/92     |               |               |                  |
|              | PF-368-RIN      | 92.27469    | < 2.              |              | UG/L       | 9/18/92     |               |               |                  |
|              |                 |             |                   |              | \<br>\     |             |               |               |                  |

#### CUSTOMER SAMPLE DUPLICATES:

| CUSTOMER             | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|----------------------|----------|------------|-------------|-------|------------|---------|
| NUMBER               | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-368-W-20          | 92.27444 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF- <b>368-W</b> -40 | 92.27445 | < 0.2      |             | UG/G  | 9/18/92    |         |

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\*\*\*\*\*\*\*\*\*\* EM-9 ANALYTICAL REPORT \*\*\*\*\*\*\*\*\*\*

 $= \left\{ \left\{ \left\{ x_{1}, x_{2}, \dots, x_{n} \right\} \right\} : \left\{ \left\{ x_{1}, x_{2}, \dots, x_{n}, \dots, x_{n} \right\} \right\} > 0 \right\}$ 

CUSTOMER SAMPLE DUPLICATES (continued):

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| CUSTOMER     | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|--------------|----------|------------|-------------|-------|------------|---------|
| NUMBER       | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-368-W-60  | 92.27446 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-W-100 | 92.27447 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-W-150 | 92.27448 | 0.2        | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-E-20  | 92.27449 | 0.3        | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-E-40  | 92.27450 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-E-60  | 92.27451 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-E-100 | 92.27452 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-E-150 | 92.27453 | 0.25       | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-N-20  | 92.27454 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-N-40  | 92.27455 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-N-60  | 92.27456 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-N-100 | 92.27457 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-N-150 | 92.27458 | 0.22       | 0.2         | UG/G  | 9/18/92    |         |
| PF-368-S-20  | 92.27459 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-S-40  | 92.27460 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-S-60  | 92.27461 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-S-100 | 92.27462 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-S-150 | 92.27463 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-SED   | 92.27464 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-0-0   | 92.27465 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-368-E60R  | 92.27466 | < 0.2      |             | UG/G  | 9/18/92    |         |
| PF-36A-RIN   | 92.27468 | < 2.       |             | UG/L  | 9/18/92    |         |
| PF-36B-RIN   | 92.27469 | < 2.       |             | UG/L  | 9/18/92    |         |

| ******** EM-9 ANALYTICAL REPORT ********* |                  |          |        |           |         |            |         |  |  |  |  |
|-------------------------------------------|------------------|----------|--------|-----------|---------|------------|---------|--|--|--|--|
| CUSTOMER                                  | SAMPLE MATRIX SP | IKES :   |        |           | <u></u> |            |         |  |  |  |  |
|                                           | CUSTOMER         | SAMPLE   | AMOUNT | AMOUNT    |         | COMPLETION |         |  |  |  |  |
|                                           | NUMBER           | NUMBER   | SPIKED | RECOVERED | UNITS   | DATE       | COMMENT |  |  |  |  |
|                                           | PF-368-W-20      | 92.27444 | 100.   | 91.8      | UG/L    | 9/18/92    |         |  |  |  |  |

| PF-368-N-20 | 92.27454 | 100. | 85.7 | UG/L | 9/18/92 |
|-------------|----------|------|------|------|---------|
| PF-36B-SED  | 92.27464 | 100. | 88.5 | UG/L | 9/18/92 |
|             |          |      |      |      |         |
|             |          |      |      |      |         |

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| REPORT NUM           | BER: 15280 (         | continued)                               |               |                      |                   |                    |                                | Page: | 0 |
|----------------------|----------------------|------------------------------------------|---------------|----------------------|-------------------|--------------------|--------------------------------|-------|---|
|                      |                      | ****                                     | EM-9 QUALITY  | ASSURANCE REP        | DRT ******        | **                 |                                |       |   |
|                      |                      | Prepared by: H. PATTERSON on 21-Sep-1992 |               |                      |                   |                    |                                |       |   |
| REQUEST NU           | MBER: 13501          | MATRIX: SE                               | ANALYST       | : MICHAEL BELI       | L                 |                    | PROGRAM CODE:                  | M106  |   |
| OWNER: Ph            | ilip R. Fresque      | z GROUP                                  | : HSE-8       | MAIL-STOP: 1         | (490 PHONE:       | 7-0815             |                                |       |   |
|                      |                      |                                          |               |                      |                   |                    |                                |       |   |
| SUMMARY OF           | CONTROL STATUS       | OF OPEN (NON-                            | BLIND) QC SAM | PLES RUN WITH 1      | THIS BATCH        |                    |                                |       |   |
| SAMPLE<br>NUM        | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY                | UNITS         | QC<br>VALUE          | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT                        |       |   |
| 00.24357             | 47.5                 | 9.5                                      | UG/L          | 50.                  | 2.                | 9/18/92            | UNDER CONTROL                  |       |   |
| SUMMARY OF           | CONTROL STATUS       | OF BLIND QC S                            | MPLES RUN WI  | <u>TH THIS BATCH</u> |                   |                    |                                |       |   |
| SAMPLE<br>NUM        | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY                | UNITS         | QC<br>VALUE          | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT                        |       |   |
| 92.27518<br>92.27519 | 40.<br>41.9          | 8.<br>8.4                                | UG/L<br>UG/L  | 44 <u>-</u><br>44 -  | 2.<br>1.9         | 9/18/92<br>9/18/92 | UNDER CONTROL<br>UNDER CONTROL |       |   |
|                      |                      | 50                                       |               |                      | 0                 |                    |                                |       |   |
|                      | ER: 15280            | N. (7'.                                  |               | -KA                  | (J)7A             |                    | man                            |       |   |

Analyst

Reviewer

10/20/072

Section Leader

QA Officer

<u>9/21/92</u> Date

<u>10 /10/91</u> Date

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10/29/92 Date

No Sample Discrepancies Noted by Sample Management Section

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The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4. REPORT NUMBER: 16009

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Prepared by: EAJ on 19-Nov-1992 REQUEST NUMBER: 13501 MATRIX: SE ANALYST: BARBARA HEMBERGER PROGRAM CODE: M106 ANALYSIS: AG GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815 OWNER: Philip R. Fresquez ANALYTICAL TECHNIQUE: FAA ANALYTICAL PROCEDURE: 272.1 NOTEBOOK: R7719 PAGE: CUSTOMER SAMPLES: SAMPLE ANALYTICAL ANALYTICAL COMPLETION CUSTOMER UNCERTAINTY UNITS DATE COMMENT RESULT NUMBER NUMBER UG//G 9/28/92 < 1. PF-36B-W-20 92.27444 fr. uG/G 9/28/92 PF-36B-W-40 92.27445 < 1. 9/28/92 PF-368-W-60 92.27446 < 1. -5 m 9/28/92 UG/G PF-36B-W-100 92.27447 < 1. 9/28/92 UG /G PF-368-W-150 92.27448 < 1.

EM-9 ANALYTICAL REPORT

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#### "ISTOMER SAMPLE DUPLICATES:

| CUSTOMER    | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |   |
|-------------|----------|------------|-------------|-------|------------|---------|---|
| NUMBER      | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | , |
| PF-36B-W-20 | 92.27444 | < 1.       |             | UG/G  | 9/28/92    |         |   |

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90<sub>01</sub> .

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|                           | ***              | ***** EM         | -9 ANALYTICAL       | REPORT                                   | ****               |         |
|---------------------------|------------------|------------------|---------------------|------------------------------------------|--------------------|---------|
| CUSTOMER SAMPLE MATRIX SP | IKES :           |                  |                     | a an | <u></u>            |         |
| CUSTOMER<br>NUMBER        | SAMPLE<br>NUMBER | AMOUNT<br>SPIKED | AMOUNT<br>RECOVERED | UNITS                                    | COMPLETION<br>DATE | COMMENT |
| PF-36B-W-20               | 92.27444         | 100.             | 107.                | UG/L                                     | 9/28/92            |         |

| REPORT         | NUMBER: | 16009              | (continued)            |            |         |                   |                      |               |                    |               | Page |
|----------------|---------|--------------------|------------------------|------------|---------|-------------------|----------------------|---------------|--------------------|---------------|------|
|                |         |                    | *****                  | EM-9       | QUALITY | ASSURANCE         | REPORT               | *****         | **                 |               |      |
|                |         |                    | Prepared               | by: EAJ    |         | on                | 19 <b>-N</b> ov-1992 |               |                    |               |      |
| REQUEST        | NUMBER: | 13501              | MATRIX:                | SE         | ANALYST | BARBARA           | HEMBERGER            |               |                    | PROGRAM CODE: | M106 |
| OWNER:         | Philip  | R. Fresq           | uez GR(                | DUP: EM-   | -8      | MAIL-STO          | P: K490              | PHONE:        | 7-0815             |               |      |
|                |         |                    |                        |            |         |                   |                      |               |                    |               |      |
| <u>Summary</u> | OF CONT | ROL STAT           | US OF OPEN (N          | ON-BLIND)  | QC_SAMF | <u>PLES RUN W</u> | <u>ITH THIS BA</u>   | <u>TCH</u>    |                    |               |      |
| SAMPLE<br>NUM  | AN      | ALYTICAL<br>RESULT | ANALYTICA<br>UNCERTAIN | L<br>TY UN | ITS     | QC<br>VALU        | E UNCE               | QC<br>RTAINTY | COMPLETION<br>DATE | COMMENT       |      |

481.

481.

#### MMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

48.

48.

UG/L

UG/L

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

\_\_\_\_ Only qualitative data requested

483.

480.

- $\times$  Only Open (non-blind) QC samples run with this sample batch.
- No QC samples run with this sample batch.
- No QC samples for this constituent and matrix type available within EM-9  $\,$

REPORT NUMBER: 16009

00.24370

00.24370

<u>Analyst</u> Reviewer Section Leader QA Officer

21.

21.

9/28/92 UNDER CONTROL

9/28/92 UNDER CONTROL

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1/23/92 11/23/92 11/23/92 11/24/92

No Sample Discrepancies Noted by Sample Management Section

e control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

REPORT NUMBER: 16083

TCLP Bo, Cd M, Pb

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\*\*\*\*\*\*\*\*\* EM-9 ANALYTICAL REPORT \*\*\*\*\*\*\*\*\*\*

 Prepared by: PEC
 on 25-Nov-1992

 REQUEST NUMBER: 13501
 MATRIX: SE ANALYST: JANET MORGAN
 PROGRAM CODE: M106

 OWNER: Philip R. Fresquez
 GROUP: EM-8
 MAIL-STOP: K490
 PHONE: 7-0815

 ANALYTICAL TECHNIQUE: ICPES
 ANALYTICAL PROCEDURE: 6010
 NOTEBOOK: R8146
 PAGE: 44

CUSTOMER SAMPLES:

| CUSTOMER     | SAMDI F  |          | ANALYTICAL | ANAL VIICAL  | s (w  | CONDUCTION | SCL unling    |
|--------------|----------|----------|------------|--------------|-------|------------|---------------|
| NUM          | NUM      | ANALYSIS | RESULT     |              |       | DATE       | C FIC CONVENT |
|              |          |          |            | oncentration | 04115 | DAIL       | COMMENT       |
| PF-36B-W-20  | 92.27444 | BA       | 1.96       | 0.2          | MG/L  | 11/25/92   | < 120         |
| PF-368-W-20  | 92.27444 | CD       | 0.05       | 0.01         | MG/L  | 11/25/92   | <   a         |
| PF-36B-W-20  | 92.27444 | CR       | < 0.01     |              | MG/L  | 11/25/92   |               |
| PF-36B-W-20  | 92.27444 | PB       | 0.35       | 0.05         | MG/L  | 11/25/92   | <5            |
| PF-36B-W-40  | 92.27445 | BA       | 3.29 /     | 0.33         | MG/L  | 11/25/92   |               |
| PF-368-W-40  | 92.27445 | CD       | 0.09       | 0.01         | MG/L  | 11/25/92   |               |
| PF-36B-W-40  | 92.27445 | CR       | < 0.01 /   |              | MG/L  | 11/25/92   |               |
| PF-36B-W-40  | 92.27445 | PB       | 0.05 -     | 0.05         | MG/L  | 11/25/92   |               |
| PF-36B-W-60  | 92.27446 | BA       | 2.06       | 0.21         | MG/L  | 11/25/92   |               |
| PF-36B-W-60  | 92.27446 | CD       | < 0.01     |              | MG/L  | 11/25/92   | 1             |
| PF-36B-W-60  | 92.27446 | CR       | < 0.01     |              | MG/L  | 11/25/92   | J'A           |
| PF-36B-W-60  | 92.27446 | РВ       | < 0.05     |              | MG/L  | 11/25/92   |               |
| PF-36B-W-100 | 92.27447 | BA       | 5.04       | 0.5          | MG/L  | 11/25/92   | 1             |
| PF-36B-W-100 | 92.27447 | CD       | 0.17       | 0.02         | MG/L  | 11/25/92   | 1             |
| PF-36B-W-100 | 92.27447 | CR       | < 0.01     |              | MG/L  | 11/25/92   | 11-           |
| PF-36B-W-100 | 92.27447 | PB       | 0.05       | 0.05         | MG/L  | 11/25/92   |               |
| PF-36B-W-150 | 92.27448 | BA       | 2.49 -     | 0.25         | MG/L  | 11/25/92   |               |
| PF-368-W-150 | 92.27448 | CD       | < 0.01     |              | MG/L  | 11/25/92   | /             |
| PF-368-W-150 | 92.27448 | CR       | < 0.01     |              | MG/L  | 11/25/92   | in            |
| PF-36B-W-150 | 92.27448 | РВ       | < 0.05     |              | MG/L  | 11/25/92   | •             |
| PF-36B-E-20  | 92.27449 | BA       | 2.03       | 0.2          | MG/I  | 11/25/92   |               |
| PF-36B-E-20  | 92.27449 | CD       | 0.04       | 0.01         | MG/I  | 11/25/92   | ·/            |
| PF-36B-E-20  | 92.27449 | CR       | < 0.01 -   |              | MG/L  | 11/25/92   | 1             |
| PF-36B-E-20  | 92.27449 | PB       | 0.09       | 0.05         | MG/1  | 11/25/92   | V             |
| PF-36B-E-40  | 92.27450 | ВА       | 1.71       | 0.17         | MG/I  | 11/25/92   |               |
| PF-36B-E-40  | 92.27450 | CD       | 0.03       | 0.01         | MG/L  | 11/25/92   | 1             |
| PF-368-E-40  | 92,27450 | CR       | 0.02 -     | 0.01         | MG/L  | 11/25/02   | A             |
| PF-36B-E-40  | 92,27450 | PR       | 0.16       | 0.05         | MC/I  | 11/25/02   | <i>µ</i> –    |
| PF-368-E-60  | 92.27451 | BA       | 3 57 -     | 0.36         | MG/L  | 11/25/02   |               |
| PF-36B-E-60  | 92.27451 | CD       | 0.05       | 0.00         | MG/L  | 11/25/92   | 1             |
| PE-368-E-60  | 92 27451 | CB       | 0.03       | 0.01         | MG/L  | 11/25/92   | (il-          |
| PE-368-E-60  | 02 27451 | PR       | 0.05       | 0.01         |       | 11/25/92   | v             |
| PF-368-F-100 | 92 27452 | RA       | / 17 ×     | 0.05         | MG/L  | 11/25/92   | 1             |
| PE-368-E-100 | 02 27652 | 00       | 4.17       | 0.42         | MG/L  | 11/25/92   | J             |
| PF-368-E-100 | 02 27/52 | CP       | 0.04       | 0.01         | MG/L  | 11/25/92   | 10-           |
| DE-360-E-100 | 76.67436 | DR DR    | < U.UI -   | 0.05         | MG/L  | 11/25/92   |               |
| DE-340-E-100 | 76.61436 |          | 0.44       | 0.05         | MG/L  | 11/25/92   |               |
| Fr-308-E-13U | 76.61435 | ва       | 1.17       | 0.12         | MG/L  | 11/25/92   |               |

| PF-36B-E-150 | 92.27453 | CD       | <      | 0.01   |      | MG/L         | 11/25/92 | 1        |
|--------------|----------|----------|--------|--------|------|--------------|----------|----------|
| PF-368-E-150 | 92.27453 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 |          |
| PF-36B-E-150 | 92.27453 | PB       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-N-20  | 92.27454 | BA       |        | 2.63   | 0.26 | MG/L         | 11/25/92 | 1        |
| PF-36B-N-20  | 92.27454 | CD       |        | 0.05   | 0.01 | MG/L         | 11/25/92 | 1_       |
| PF-368-N-20  | 92.27454 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | 0.01     |
| PF-36B-N-20  | 92.27454 | PB       |        | 0.12   | 0.05 | MG/L         | 11/25/92 |          |
| PF-36B-N-40  | 92.27455 | BA       |        | 7.63 - | 0.76 | MG/L         | 11/25/92 | 1        |
| PF-36B-N-40  | 92.27455 | CD       |        | 0.03   | 0.01 | MG/L         | 11/25/92 | 1-       |
| PF-36B-N-40  | 92.27455 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | ų i      |
| PF-36B-N-40  | 92.27455 | PB       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-N-60  | 92.27456 | BA       |        | 1.75   | 0.2  | MG/L         | 11/25/92 | +        |
| PF-36B-N-60  | 92.27456 | CD       | <      | 0.01   |      | MG/L         | 11/25/92 | 1-       |
| PF-36B-N-60  | 92.27456 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | 1.       |
| PF-36B-N-60  | 92.27456 | PB       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-N-100 | 92.27457 | BA       |        | 6.83   | 0.68 | MG/L         | 11/25/92 |          |
| PF-36B-N-100 | 92.27457 | CD       |        | 0.32   | 0.03 | MG/L         | 11/25/92 | 1        |
| PF-36B-N-100 | 92.27457 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | 7        |
| PF-36B-N-100 | 92.27457 | PB       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-N-150 | 92.27458 | BA       |        | 3.14   | 0.31 | MG/L         | 11/25/92 |          |
| PF-36B-N-150 | 92.27458 | CD       |        | 0.03   | 0.01 | MG/L         | 11/25/92 | 1-       |
| PF-36B-N-150 | 92.27458 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | (V       |
| PF-36B-N-150 | 92.27458 | РВ       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-S-20  | 92.27459 | BA       |        | 1.58 # | 0.16 | MG/L         | 11/25/92 | 1        |
| PF-36B-S-20  | 92.27459 | CD       |        | 0.04   | 0.01 | MG/L         | 11/25/92 | V        |
| PF-36B-S-20  | 92.27459 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | V        |
| PF-36B-S-20  | 92.27459 | PB       |        | 0.09   | 0.05 | MG/L         | 11/25/92 |          |
| PF-36B-S-40  | 92.27460 | BA       |        | 3.3    | 0.33 | MG/L         | 11/25/92 | 4        |
| PF-36B-S-40  | 92.27460 | CD       |        | 0.02   | 0.01 | MG/L         | 11/25/92 | 4-       |
| PF-36B-S-40  | 92.27460 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | <u> </u> |
| PF-36B-S-40  | 92.27460 | PB       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-S-60  | 92.27461 | BA       |        | 3.33   | 0.33 | MG/L         | 11/25/92 | ,        |
| PF-36B-S-60  | 92.27461 | CD       |        | 0.03   | 0.01 | MG/L         | 11/25/92 |          |
| PF-36B-S-60  | 92.27461 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | -        |
| PF-368-S-60  | 92.27461 | РВ       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-368-S-100 | 92.27462 | ва       |        | 1.94   | 0.19 | MG/L         | 11/25/92 | 1        |
| PF-36B-S-100 | 92.27462 | CD       | <      | 0.01   |      | MG/L         | 11/25/92 | 1-       |
| PF-36B-S-100 | 92.27462 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | 16 L     |
| PF-368-S-100 | 92.27462 | PB       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-S-150 | 92.27463 | BA       |        | 1.49   | 0.15 | MG/L         | 11/25/92 |          |
| PF-36B-S-150 | 92.27463 | CD       | <      | 0.01   |      | MG/L         | 11/25/92 | Dr       |
| PF-36B-S-150 | 92.27463 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | M        |
| PF-36B-S-150 | 92.27463 | PB       | <      | 0.05   |      | MG/L         | 11/25/92 |          |
| PF-36B-SED   | 92.27464 | BA       |        | 3.92   | 0.39 | MG/L         | 11/25/92 |          |
| PF-36B-SED   | 92.27464 | CD       | <      | 0.01   |      | MG/L         | 11/25/92 | , )      |
| PF-36B-SED   | 92.27464 | CR       | <      | 0.01   |      | MG/L         | 11/25/92 | 1-       |
| PF-368-SED   | 92.27464 | PB       | <      | 0.05   |      | MGZL         | 11/25/92 |          |
| PE-368-0-0   | 92 27465 | RA       |        | 1 56   | 0 16 | MG/L         | 11/25/92 |          |
| PE-368-0-0   | 92 27465 | CD       |        | 0.03   | 0.01 | MG/L         | 11/25/92 | 1        |
| PE-368-0-0   | 02 27445 | CP       | ٤      | 0.01   | 0.01 | MG/L         | 11/25/92 | i-       |
| PF-368-0-0   | 02 27445 | DR       | •      | 0.01   | 0.05 | MG/L         | 11/25/92 | 4.       |
| PF-368-F60P  | 92.27444 | RA       |        | 3.56   | 0.36 | MG/L         | 11/25/92 |          |
| DE-348-EADP  | 02 27/44 | CD.      |        | 0.06   | 0.01 | MG/I         | 11/25/02 | ۶        |
| DE-ZAD-EAND  | 02 27/44 | CD<br>CP |        | 0.00   | 0.01 | MG/E         | 11/25/02 | j\$-     |
| FF-J00-EOUK  | 72.2/400 |          | `      | 0.01   | 0.01 | MG/L         | 11/25/02 | ×        |
| DE-34A-DIN   | 76.2/400 |          |        | 0.33   | 0.01 |              | 11/25/92 | ,        |
| PE-34A DIN   | 72.2/400 |          | ۲<br>۲ | 0.07   |      | mG/L<br>MC/L | 11/25/92 | M-       |
| PESOA-KIN    | 72.2/408 |          | ×<br>- | 0.01   |      | mG/L         | 11/25/92 | 1        |
| PT-JOA-KIN   | 92.2/408 | UK<br>DR | <      | 0.01   |      | MG/L         | 11/25/92 |          |
| PE-JOA-KIN   | 92.2/408 | 70       | <      | 0.05   | 0.1  | mG/L         | 11/25/92 |          |
| 24-368-RIN   | 72.27469 | ВA       |        | 0.90   | 0.1  | MG/L         | 11/25/92 |          |
| PF-36B-RIN | 92.27469 CD | 0.01   | 0.01 | MG/L | 11/23/92 |  |
|------------|-------------|--------|------|------|----------|--|
| PF-36B-RIN | 92.27469 CR | < 0.01 |      | MG/L | 11/25/92 |  |
| PF-36B-RIN | 92.27469 PB | 0.05   | 0.05 | MG/L | 11/25/92 |  |

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| REPORT | NUMBER: | 16083     | (continued) |                       |                 |        |               |      |
|--------|---------|-----------|-------------|-----------------------|-----------------|--------|---------------|------|
|        |         |           | *****       | EM-9 QUALITY ASSURANC | E REPORT *****  | ***    |               |      |
|        |         |           | Prepared b  | r: PEC on             | 25-Nov-1992     |        |               |      |
| REQUES | NUMBER: | 13501     | MATRIX: S   | ANALYST: JANET        | MORGAN          |        | PROGRAM CODE: | м106 |
| OWNER: | Philip  | R. Fresqu | Jez GROU    | : EM-8 MAIL-ST        | OP: K490 PHONE: | 7-0815 |               |      |
| NOTEBO | DK: R81 | 46 PAGE   | : 44        |                       |                 |        |               |      |

# SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION |               |
|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |
| 00.20193 | ВА       | 11.        | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | ВА       | 11.7       | 1.2         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | ва       | 11.1       | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| ).20193  | CD       | 10.6       | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| J0.20193 | CD       | 10.4       | 1.          | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | CD       | 10.        | 1.          | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | CR       | 10.7       | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | CR       | 10.9       | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | CR       | 10.5       | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | PB       | 10.2       | 1.          | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | РВ       | 10.9       | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |
| 00.20193 | PB       | 10.6       | 1.1         | MG/L  | 10.   | 1.          | 11/25/92   | UNDER CONTROL |

# SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

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| SAMPLE            |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION |               |
|-------------------|----------|------------|-------------|-------|-------|-------------|------------|---------------|
| NUM               | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |
| 92.27522          | ВА       | 4.9        | 0.49        | MG/L  | 4.5   | 0.2         | 11/25/92   | UNDER CONTROL |
| 92.27522          | CD       | 2.11       | 0.21        | MG/L  | 2.    | 0.09        | 11/25/92   | UNDER CONTROL |
| 92.27522          | CR       | < 0.01     |             | MG/L  | 0.0   |             | 11/25/92   | UNDER CONTROL |
| 92.27522          | PB       | 27.4       | 0.27        | MG/L  | 26.   | 1.1         | 11/25/92   | UNDER CONTROL |
| 92.27523          | BA       | 250.       | 70.         | UG/L  | 300.  | 13.         | 11/25/92   | UNDER CONTROL |
| 92.27523          | CD       | 1.54       | 0.15        | MG/L  | 1.4   | 0.06        | 11/25/92   | UNDER CONTROL |
| 92.27523          | CR       | 890.       | 90.         | UG/L  | 800.  | 34.         | 11/25/92   | UNDER CONTROL |
| `? <b>.</b> 27523 | PB       | 6.65       | 0.67        | MG/L  | 6.    | 0.3         | 11/25/92   | UNDER CONTROL |

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Analyst

Section Leader

QA Officer

112112 Date

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11/25/02 Date

11 30 92 Date

No Sample Discrepancies Noted by Sample Management Section

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The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Ouality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

Reviewer

<u>11/25/-2</u>

. Date

| REPORT NUME  | BER: 15762        |                      | 10                   | LP-10th        | γ-             | M-          |          | Ρ            | age: 01 |
|--------------|-------------------|----------------------|----------------------|----------------|----------------|-------------|----------|--------------|---------|
| <u></u>      |                   | *:                   | ******* EM-          | 9 ANALYTICAL R | EPORT          | ****        |          |              |         |
|              |                   |                      | Prepared by: J       | HANMER         | on 3-N         | ov-1992     |          |              |         |
| ANALYSIS: H  | IG REQU           | IEST NUMBER          | R: 13501 MA          | TRIX: SE A     | NALYST: J      | DYCE HANMER |          | PROGRAM CODE | : M106  |
| OUNER, DEI   | in R. Energy      |                      | 010. EM-9            | MALL STOD.     | ×/00 DW        | NE . 7.081E |          |              |         |
| OWNER: Phil  | ip κ. Fresquez    | . 6                  | (OOP: EM-8           | MAIL-STUP:     | K490 PH        | JNE: /-U815 |          |              |         |
| ANALYTICAL T | ECHNIQUE: CVA     | A AI                 | ALYTICAL PROCEDU     | RE: 245.2      |                | NOTEBOOK:   | Y04110   | PAGE: 177    |         |
|              |                   |                      |                      |                |                |             |          |              |         |
| CUSTOMER SAM | PLES:<br>CUSTOMER |                      | ANALYTICAL<br>DESULT | ANALYTICAL     | M <sup>b</sup> |             | COMMEN   | T            |         |
|              | RONDER            | NOMBER               | REGULI               | UNCERTAINT     | UNITS          | DATE        | COMMEN   | 1            |         |
|              | PF-36B-W-20       | 92.27444             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-36B-W-40       | 92.27445             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-36B-W-60       | 92.27446             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-36B-W-100      | 92.27447             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-36B-W-150      | 92.27448             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-368-E-20       | 92.27449             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-368-E-40       | 92.27430             | < 0.1                |                |                | 10/06/92    |          |              |         |
|              | PF-368-F-100      | 92.27457             | < 0.1                |                | UG/L           | 10/06/92    |          |              | ъ.      |
|              | PF-36B-E-150      | 92.27453             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-36B-N-20       | 92.27454             | < 0.1                |                | UG/L           | 10/06/92    | /        | 7            |         |
|              | PF-36B-N-40       | 92.27455             | < 0.1                |                | UG/L           | 10/06/92    | <u> </u> | Vic          |         |
|              | PF-368-N-60       | 92.27456             | < 0.1                |                | UG/L           | 10/06/92    |          | 1            |         |
|              | PF-368-N-100      | 92.27457             | < 0.1                |                | UG/L           | 10/06/92    |          | 1_           |         |
|              | PF-36B-N-150      | 92.27458             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-368-S-20       | 92.27459             | < 0.1                |                | UG/L           | 10/06/92    |          | ů –          |         |
|              | PF-368-S-40       | 92.27460             | < 0.1                |                | UG/L           | 10/06/92    |          | $\sim$       |         |
|              | PF-36B-S-60       | 92.27461             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PF-368-S-100      | 92.27462             | < 0.1                |                | UG/L           | 10/06/92    |          | I V          |         |
|              | PF-368-S-150      | 92.27463             | < 0.1                |                | UG/L           | 10/06/92    |          | 1 -          |         |
|              | PF-308-SED        | 92.2/464             | < 0.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PT-308-0-0        | Y2.2/405             | < 0.1                |                |                | 10/06/92    |          |              |         |
|              | PT-JOB-LOUR       | 72.2/400<br>02 27/40 | < U.1                |                | UG/L           | 10/06/92    |          |              |         |
|              | PT-JUA-KIN        | 76.61400             | > V.1                |                | UG/L           | 10/00/92    |          |              |         |

#### CUSTOMER SAMPLE DUPLICATES:

PF-36B-RIN 92.27469

| CUSTOMER     | SAMPLE   | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|--------------|----------|------------|-------------|-------|------------|---------|
| NUMBER       | NUMBER   | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
|              |          |            |             |       |            |         |
| PF-368-N-100 | 92.27457 | < 0.1      |             | UG/L  | 11/02/92   |         |

UG/L

10/06/92

< 0.1

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|                            | ****     | ***** EM | -9 ANALYTICAL R | EPORT 1 | *****      |         |  |
|----------------------------|----------|----------|-----------------|---------|------------|---------|--|
| CUSTOMER SAMPLE MATRIX SPI | KES :    |          | <u> </u>        |         |            |         |  |
| CUSTOMER                   | SAMPLE   | AMOUNT   | AMOUNT          |         | COMPLETION |         |  |
| NUMBER                     | NUMBER   | SPIKED   | RECOVERED       | UNITS   | DATE       | COMMENT |  |
| PF-368-N-100               | 92.27457 | 2.       | 2.              | UG/L    | 11/02/92   |         |  |

| REPORT  | NUMBER: | 15762  | (continued) | )     |              |          |           |        |        |               | Page: | 03 |
|---------|---------|--------|-------------|-------|--------------|----------|-----------|--------|--------|---------------|-------|----|
|         |         |        | *******     | **    | EM-9 QUALITY | ASSURANC | E REPORT  | *****  | ***    |               |       |    |
|         |         |        | Prepare     | ed by | : J HANMER   | on       | 3-Nov-199 | 2      |        |               |       |    |
| REQUEST | NUMBER: | 1350   | 1 MATRIX:   | SE    | ANALYS       | : JOYCE  | HANMER    |        |        | PROGRAM CODE: | M106  |    |
| OWNER:  | Philip  | R. Fre | squez (     | ROUP  | : EM-8       | MAIL-ST  | OP: K490  | PHONE: | 7-0815 |               |       |    |
|         |         |        |             |       |              |          |           |        |        |               |       |    |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

- \_\_\_\_\_ Only qualitative data requested
- $\underline{X}$  Only Blind QC samples run with this sample batch.
- \_ No QC samples run with this sample batch.
- No QC samples for this constituent and matrix type available within EM-9

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | QC<br>VALUE | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT       |
|---------------|----------------------|---------------------------|-------|-------------|-------------------|--------------------|---------------|
| 92.27520      | < 0.1                |                           | UG/L  | 0.0         |                   | 10/06/92           | UNDER CONTROL |
| 92.27521      | 2.4                  | 0.24                      | UG/L  | 2.5         | 0.15              | 10/06/92           | UNDER CONTROL |

REPORT NUMBER: 15762



MAQ QA Officer

11/3/92 11/3/92 11/3/92 Date

No Sample Discrepancies Noted by Sample Management Section

11-3-92

the control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

34F. ftel Ht, 150, 12t, 100, 1-, 1-0

|        | _    |            |        |          |
|--------|------|------------|--------|----------|
| ****** | EM-9 | ANALYTICAL | REPORT | ******** |

Prepared by: PEC on 7-Jan-1993

OWNER: Philip R. Fresquez GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815

REQUEST NUMBER: 13438 MATRIX: SS ANALYST: JANET MORGAN

PROGRAM CODE: M106

ANALYTICAL TECHNIQUE: ICPES ANALYTICAL PROCEDURE: NOTEBOOK: 8149 PAGE: 49

CUSTOMER SAMPLES:

| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |                |
|--------------|----------|----------|------------|-------------|-------|------------|----------------|
| NUM          | NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT AL PPA |
| PF-36A-0-0   | 92.26700 | AL       | 6.7        | 1.          | %     | 12/23/92   | nw             |
| PF-36A-0-0   | 92.26700 | ВА       | 535.       | 107.        | UG/G  | 12/23/92   | 4000           |
| PF-36A-0-0   | 92.26700 | BE       | 2.98'      | 0.6         | UG/G  | 12/23/92   | X- YOR Relund  |
| PF-36A-0-0   | 92.26700 | CU       | 79.6       | 16.         | UG/G  | 12/23/92   |                |
| PF-36A-0-0   | 92.26700 | FE       | 2.1        | 0.42        | %     | 12/23/92   | ump = 2,30     |
| PF-36A-0-0   | 92.26700 | PB       | 40.        | 8.          | UG/G  | 12/23/92   | nml            |
| PF-36A-S-100 | 92.26701 | AL       | 6.78       | 1.          | %     | 12/23/92   |                |
| PF-36A-S-100 | 92.26701 | BA       | 492.       | 98.         | UG/G  | 12/23/92   |                |
| PF-36A-S-100 | 92.26701 | BE       | 2.67       | 0.53        | UG/G  | 12/23/92   | 1              |
| PF-36A-S-100 | 92.26701 | CU       | 23.9       | 4.8         | UG/G  | 12/23/92   | ۲              |
| PF-36A-S-100 | 92.26701 | FE       | 2.02       | 0.4         | %     | 12/23/92   | V              |
| PF-36A-S-100 | 92.26701 | PB       | 20.        | 4.          | UG/G  | 12/23/92   |                |
| PF-36A-S-50' | 92.26702 | AL       | 6.3        | 1.          | %     | 12/23/92   |                |
| PF-36A-S-50' | 92.26702 | BA       | 465.       | 93.         | UG/G  | 12/23/92   |                |
| PF-36A-S-50' | 92.26702 | BE       | 2.08       | 0.42        | UG/G  | 12/23/92   | 1              |
| PF-36A-S-50' | 92.26702 | CU       | 63.8       | 13.         | UG/G  | 12/23/92   | 0 V            |
| PF-36A-S-50' | 92.26702 | FE       | 1.7        | 0.34        | %     | 12/23/92   |                |
| PF-36A-S-50' | 92.26702 | РВ       | 29.        | 6.          | UG/G  | 12/23/92   |                |
| PF-36A-S-25' | 92.26703 | AL       | 6.73       | 1.          | %     | 12/23/92   |                |
| PF-36A-S-25' | 92.26703 | BA       | 563.       | 113.        | UG/G  | 12/23/92   |                |
| PF-36A-S-25' | 92.26703 | BE       | 2.56       | 0.51        | UG/G  | 12/23/92   | .1-            |
| PF-36A-S-25' | 92.26703 | CU       | 201.       | 40.         | UG/G  | 12/23/92   |                |
| PF-36A-S-25' | 92.26703 | FE       | 1.9        | 0.38        | %     | 12/23/92   | V              |
| PF-36A-S-25' | 92.26703 | P8       | 70.        | 14.         | UG/G  | 12/23/92   |                |
| PF-36A-S-10' | 92.26704 | AL       | 5.4        | 1.          | %     | 12/23/92   |                |
| PF-36A-S-10' | 92.26704 | BA       | 494.       | 99.         | UG/G  | 12/23/92   |                |
| PF-36A-S-10' | 92.26704 | BE       | 1.95       | 0.39        | UG/G  | 12/23/92   | 1              |
| PF-36A-S-10' | 92.26704 | си       | 90.8       | 18.         | UG/G  | 12/23/92   |                |
| PF-36A-S-10' | 92.26704 | FE       | 1.38       | 0.28        | %     | 12/23/92   |                |
| PF-36A-S-10' | 92.26704 | PB       | 36.        | 7.          | UG/G  | 12/23/92   |                |
| PF-36A-S-5'  | 92.26705 | AL       | 5.9        | 1.          | %     | 12/23/92   |                |
| PF-36A-S-5'  | 92.26705 | BA       | 419.       | 84.         | UG/G  | 12/23/92   |                |
| PF-36A-S-5'  | 92.26705 | BE       | 2.16       | 0.43        | UG/G  | 12/23/92   | 1              |
| PF-36A-S-5'  | 92.26705 | си       | 119.       | 24.         | UG/G  | 12/23/92   | $\mathcal{A}$  |
| PF-36A-S-5'  | 92.26705 | FE       | 1.6        | 0.32        | %     | 12/23/92   | ٢.             |
| PF-36A-S-5'  | 92.26705 | PB       | 0.25       | 0.05        | %     | 12/23/92   |                |
| PF-36A-W-100 | 92.26706 | AL       | 6.7        | 1.          | %     | 12/23/92   |                |
|              |          |          |            | ••          |       | ,,.        |                |

|   | PF-36A-W-100 | 92.26706 | BA       | 337.              | 67.4      | UG/G         | 12/23/92 |
|---|--------------|----------|----------|-------------------|-----------|--------------|----------|
|   | PF-36A-W-100 | 92.26706 | BE       | 2.7               | 0.54      | UG/G         | 12/23/92 |
|   | PF-36A-W-100 | 92.26706 | CU       | 7.8               | 1.6       | UG/G         | 12/23/92 |
|   | PF-36A-W-100 | 92.26706 | FE       | 1.9               | 0.38      | %            | 12/23/92 |
|   | PF-36A-W-100 | 92.26706 | PB       | 20.               | 4.        | UG/G         | 12/23/92 |
|   | PF-36A-W-50' | 92.26707 | AL       | 5.8               | 1.        | %            | 12/23/92 |
|   | PF-36A-W-50' | 92.26707 | BA       | 302.              | 60.       | UG/G         | 12/23/92 |
|   | PF-36A-W-50' | 92.26707 | BE       | 2.33              | 0.47      | UG/G         | 12/23/92 |
|   | PF-36A-W-50' | 92.26707 | CU       | 11.2              | 2.2       | UG/G         | 12/23/92 |
|   | PF-36A-W-50' | 92.26707 | FE       | 1.6               | 0.32      | %            | 12/23/92 |
|   | PF-36A-W-50' | 92.26707 | PB       | 21.               | 4.        | UG/G         | 12/23/92 |
|   | PF-36A-W-25' | 92.26708 | AL       | 6.4               | 1.        | %            | 12/23/92 |
|   | PF-36A-W-25' | 92.26708 | BA       | 364.              | 72.8      | UG/G         | 12/23/92 |
|   | PF-36A-W-25' | 92.26708 | BE       | 2.28              | 0.46      | UG/G         | 12/23/92 |
|   | PF-36A-W-25' | 92,26708 | cu       | 101.              | 20.       | UG/G         | 12/23/92 |
|   | PF-36A-W-25/ | 92.26708 | FE       | 1.6               | 0.32      | %            | 12/23/92 |
|   | PF-36A-W-25/ | 92.26708 | PB       | 51.               | 10.       | 10/0         | 12/23/92 |
|   | PE-36A-W-10/ | 92.26709 | Al       | 5.4               | 1         | %            | 12/23/92 |
|   | PE-364-W-10/ | 92 26709 | RA       | 208               | 60        | 0,011        | 12/23/92 |
|   | PE-364-U-10/ | 92 26709 | BE       | 2 14              | 0.43      |              | 12/23/02 |
|   | PE-364-U-10/ | 02 26700 |          | 6. / <del>-</del> | 13        |              | 12/23/92 |
|   | PF-30A-W-10/ | 02 24700 | 55       | 1 /               | 0.28      | vu/u<br>∾    | 12/23/92 |
|   | PF-30A-W-10  | 92.20709 |          | 1.4               | U.20<br>F | /6<br>110.00 | 12/23/92 |
|   | PF-30A-W-10' | 92.20709 | PB       | 27.               | 5.        | 06/6         | 12/23/92 |
|   | PF-36A-W-5'  | 92.20710 | AL       | 0.1               | 1.        | %            | 12/23/92 |
|   | PF-36A-W-5'  | 92.26/10 | BA       | 536.              | 67.       | UG/G         | 12/23/92 |
|   | PF-36A-W-5'  | 92.26710 | BE       | 2.36              | 0.47      | UG/G         | 12/23/92 |
|   | PF-36A-W-5'  | 92.26710 | CU       | 50.               | 10.       | UG/G         | 12/23/92 |
|   | PF-36A-W-5'  | 92.26710 | FE       | 1.5               | 0.3       | %            | 12/23/92 |
|   | PF-36A-W-5'  | 92.26710 | PB       | 37.               | 7.        | UG/G         | 12/23/92 |
|   | PF-36A-E-100 | 92.26711 | AL       | 6.04              | 1.        | %            | 12/23/92 |
|   | PF-36A-E-100 | 92.26711 | BA       | 596.              | 119.      | UG/G         | 12/23/92 |
|   | PF-36A-E-100 | 92.26711 | BE       | 2.35              | 0.47      | UG/G         | 12/23/92 |
|   | PF-36A-E-100 | 92.26711 | CU       | 29.9              | 5.98      | UG/G         | 12/23/92 |
|   | PF-36A-E-100 | 92.26711 | FE       | 1.7               | 0.34      | %            | 12/23/92 |
|   | PF-36A-E-100 | 92.26711 | РВ       | 30.               | 6.        | UG/G         | 12/23/92 |
|   | PF-36A-E-76  | 92.26712 | AL       | 6.3               | 1.        | %            | 12/23/92 |
|   | PF-36A-E-76  | 92.26712 | BA       | 833.              | 167.      | UG/G         | 12/23/92 |
|   | PF-36A-E-76  | 92.26712 | BE       | 2.25              | 0.45      | UG/G         | 12/23/92 |
|   | PF-36A-E-76  | 92.26712 | CU       | 86.6              | 17.       | UG/G         | 12/23/92 |
|   | PF-36A-E-76  | 92.26712 | FE       | 1.7               | 0.34      | %            | 12/23/92 |
|   | PF-36A-E-76  | 92,26712 | PB ·     | 51.               | 10.       | UG/6         | 12/23/92 |
|   | PE-364-E-50/ | 92.26713 | Δ1       | 5.8               | 1         | %            | 12/23/92 |
|   | PE-364-E-50/ | 92.26713 | RA       | 512               | 102       | 10.70        | 12/23/92 |
|   | PE-364-E-50/ | 92 26713 | RF       | 1 87              | 0.37      | 11676        | 12/23/02 |
|   | PE-364-E-50/ | 02 26713 |          | 85                | 17        |              | 12/23/02 |
|   | PF JOA E JO  | 02 26713 | 55       | 1 /               | 0.28      | 9<br>9       | 12/23/72 |
| 8 | PF-30A-E-30  | 72.20713 | 75<br>00 | 77                | 7         | /e           | 12/23/92 |
| 7 | PF-30A-E-30  | 92.20/13 | PB       |                   | 1.        | 06/6         | 12/23/92 |
|   | PF-30A-E-25  | 92.20/14 | AL       | 6.5               | 1.        | %            | 12/23/92 |
|   | PF-30A-E-25  | 92.20/14 | BA       | 509.              | 102.      | UG/G         | 12/23/92 |
|   | PF-36A-E-25' | 92.26/14 | BE       | 2.53              | 0.51      | UG/G         | 12/23/92 |
|   | PF-36A-E-25' | 92.26714 | CU       | 66.               | 13.       | UG/G         | 12/23/92 |
|   | PF-36A-E-25/ | 92.26714 | FE       | 2.                | 0.4       | %            | 12/23/92 |
|   | PF-36A-E-25' | 92.26714 | PB       | 38.               | 8.        | UG/G         | 12/23/92 |
|   | PF-36A-E-10' | 92.26715 | AL       | 6.2               | 1.        | *            | 12/23/92 |
|   | PF-36A-E-10' | 92.26715 | BA       | 381.              | 76.       | UG/G         | 12/23/92 |
|   | PF-36A-E-10' | 92.26715 | BE       | 2.39              | 0.48      | UG/G         | 12/23/92 |
|   | PF-36A-E-10' | 92.26715 | CU       | 44.9              | 9.        | UG/G         | 12/23/92 |
|   | PF-36A-E-10' | 92.26715 | FE 🗕     | 2.3               | 0.46      | %            | 12/23/92 |
|   | PF-36A-E-10' | 92.26715 | PB       | 35.               | 7.        | UG/G         | 12/23/92 |
|   | PF-36A-E-5'  | 92.26716 | AL       | 6.                | 1.        | %            | 12/23/92 |
|   |              |          |          |                   |           |              |          |

| PF-36A-E-5' 92.26716 BA  | 411. | 82.  | UG/G | 12/23/92 |
|--------------------------|------|------|------|----------|
| PF-36A-E-5' 92.26716 BE  | 2.16 | 0.43 | UG/G | 12/23/92 |
| PF-36A-E-5' 92.26716 CU  | 61.7 | 12.  | UG/G | 12/23/92 |
| PF-36A-E-5' 92.26716 FE  | 1.4  | 0.28 | %    | 12/23/92 |
| PF-36A-E-5' 92.26716 PB  | 34.  | 7.   | UG/G | 12/23/92 |
| PF-36A-N-100 92.26717 AL | 6.4  | 1.   | %    | 12/23/92 |
| PF-36A-N-100 92.26717 BA | 389. | 78.  | UG/G | 12/23/92 |
| PF-36A-N-100 92.26717 BE | 1.97 | 0.39 | UG/G | 12/23/92 |
| PF-36A-N-100 92.26717 CU | 36.1 | 7.   | UG/G | 12/23/92 |
| PF-36A-N-100 92.26717 FE | 1.5  | 0.3  | %    | 12/23/92 |
| PF-36A-N-100 92.26717 PB | 60.  | 12.  | UG/G | 12/23/92 |
| PF-36A-N-50' 92.26718 AL | 5.8  | 1.   | %    | 12/23/92 |
| PF-36A-N-50' 92.26718 BA | 417. | 83.  | UG/G | 12/23/92 |
| PF-36A-N-50' 92.26718 BE | 2.41 | 0.48 | UG/G | 12/23/92 |
| PF-36A-N-50' 92.26718 CU | 56.2 | 11.  | UG/G | 12/23/92 |
| PF-36A-N-50' 92.26718 FE | 1.7  | 0.34 | %    | 12/23/92 |
| PF-36A-N-50' 92.26718 PB | 52.  | 10.  | UG/G | 12/23/92 |
| PF-36A-N-25' 92.26719 AL | 6.5  | 1.   | %    | 12/23/92 |
| PF-36A-N-25' 92.26719 BA | 418. | 84.  | UG/G | 12/23/92 |
| PF-36A-N-25' 92.26719 BE | 2.33 | 0.47 | UG/G | 12/23/92 |
| PF-36A-N-25' 92.26719 CU | 51.6 | 10.  | UG/G | 12/23/92 |
| PF-36A-N-25' 92.26719 FE | 1.7  | 0.34 | *    | 12/23/92 |
| PF-36A-N-25' 92.26719 PB | 81.  | 16.  | UG/G | 12/23/92 |
| PF-36A-N-10R 92.26720 AL | 6.5  | 1.   | %    | 1/04/93  |
| PF-36A-N-10R 92.26720 BA | 423. | 85.  | UG/G | 1/04/93  |
| PF-36A-N-10R 92.26720 BE | 2.47 | 0.49 | UG/G | 1/04/93  |
| PF-36A-N-10R 92.26720 CU | 6.7  | 1.3  | UG/G | 1/04/93  |
| PF-36A-N-10R 92.26720 FE | 1.9  | 0.38 | %    | 1/04/93  |
| PF-36A-N-10R 92.26720 PB | 23.  | 4.6  | UG/G | 1/04/93  |
| PF-36A-N-10' 92.26721 AL | 6.3  | 1.   | %    | 1/04/93  |
| PF-36A-N-10' 92.26721 BA | 406. | 81.  | UG/G | 1/04/93  |
| PF-36A-N-10' 92.26721 BE | 2.35 | 0.47 | UG/G | 1/04/93  |
| PF-36A-N-10' 92.26721 CU | 5.6  | 1.1  | UG/G | 1/04/93  |
| PF-36A-N-10' 92.26721 FE | 1.7  | 0.34 | %    | 1/04/93  |
| PF-36A-N-10' 92.26721 PB | 19.5 | 3.9  | UG/G | 1/04/93  |
| PF-36A-N-5' 92.26722 AL  | 6.2  | 1.   | %    | 1/04/93  |
| PF-36A-N-5' 92.26722 BA  | 395. | 79.  | UG/G | 1/04/93  |
| PF-36A-N-5' 92.26722 BE  | 2.65 | 0.53 | UG/G | 1/04/93  |
| PF-36A-N-5' 92.26722 CU  | 36.7 | 7.3  | UG/G | 1/04/93  |
| PF-36A-N-5' 92.26722 FE  | 1.8  | 0.36 | %    | 1/04/93  |
| PF-36A-N-5/ 92.26722 PB  | 34.  | 7.   | UG/G | 1/04/93  |

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| REPORT NUME | BER: 10 | 5603 (c  | continued)                                          |  |
|-------------|---------|----------|-----------------------------------------------------|--|
|             |         |          | ******** EM-9 QUALITY ASSURANCE REPORT *******      |  |
|             |         |          | Prepared by: PEC on 7-Jan-1993                      |  |
| REQUEST NUM | IBER: 1 | 13438    | MATRIX: SS ANALYST: JANET MORGAN PROGRAM CODE: M106 |  |
| OWNER: Phi  | lip R.  | Fresquez | GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815           |  |
| NOTEBOOK:   | 8149    | PAGE:    | 49                                                  |  |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION |                |
|----------|----------|------------|-------------|-------|-------|-------------|------------|----------------|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT        |
| 00.00594 | AL       | 8.86       | 2.          | %     | 9.38  | 0.17        | 1/05/93    | UNDER CONTROL  |
| 00.00594 | ВА       | 875.       | 175.        | UG/G  | 879.  | 47.         | 1/05/93    | UNDER CONTROL  |
| 00594،   | BE       | 2.01       | 0.4         | UG/G  | 1.98  | 0.29        | 1/05/93    | UNDER CONTROL  |
| J.00594  | CU       | 50.        | 10.         | UG/G  | 61.   | 3.          | 1/05/93    | UNDER CONTROL  |
| 00.00594 | FE       | 5.8        | 1.          | %     | 6.    | 0.13        | 1/05/93    | UNDER CONTROL  |
| 00.00594 | РВ       | < 4.       |             | UG/G  | 21.   | 4.          | 1/05/93    | OUT OF CONTROL |
| 00.00598 | AL       | 2.25       | 0.45        | %     | 3.06  | 0.11        | 1/05/93    | UNDER CONTROL  |
| 00.00598 | ВА       | 223.       | 45.         | UG/G  | 300.  | 40.         | 1/05/93    | UNDER CONTROL  |
| 00.00598 | BE       | 1.21       | 0.24        | UG/G  | 0.81  | 0.15        | 1/05/93    | UNDER CONTROL  |
| 00.00598 | CU       | 14.7       | 3.          | UG/G  | 17.   | 1.          | 1/05/93    | UNDER CONTROL  |
| 00.00598 | FE       | 1.29       | 0.26        | %     | 1.51  | 0.06        | 1/05/93    | UNDER CONTROL  |
| 00.00598 | PB       | 8.         | 4.          | UG/G  | 14.   | 3.          | 1/05/93    | UNDER CONTROL  |
| 00.26210 | AL       | 226.       | 23.         | MG/L  | 250.  | 11.         | 1/04/93    | UNDER CONTROL  |
| 00.26210 | AL       | 232.       | 23.         | MG/L  | 250.  | 11.         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | AL       | 237.       | 24.         | MG/L  | 250.  | 11.         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | BA       | 10.2       | 1.          | MG/L  | 10.   | 0.4         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | BA       | 9.89       | 1.          | MG/L  | 10.   | 0.4         | 1/04/93    | UNDER CONTROL  |
| 00.26210 | BA       | 10.1       | 1.          | MG/L  | 10.   | 0.4         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | BE       | 2.54       | 0.25        | MG/L  | 2.5   | 0.1         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | BE       | 2.46       | 0.25        | MG/L  | 2.5   | 0.1         | 1/04/93    | UNDER CONTROL  |
| 00.26210 | BE       | 2.67       | 0.27        | MG/L  | 2.5   | 0.1         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | CU       | 9.35       | 0.9         | MG/L  | 10.   | 0.4         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | CU       | 9.82       | 0.98        | MG/L  | 10.   | 0.4         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | CU       | 9.01       | 0.9         | MG/L  | 10.   | 0.4         | 1/04/93    | UNDER CONTROL  |
| 00.26210 | FE       | 249.       | 25.         | MG/L  | 253.  | 11.         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | FE       | 272.       | 27.         | MG/L  | 253.  | 11.         | 12/23/92   | UNDER CONTROL  |
| 00.26210 | FE       | 248.       | 25.         | MG/L  | 253.  | 11.         | 1/04/93    | UNDER CONTROL  |
| 00.26210 | PB       | 9.13       | 0.9         | MG/L  | 10.   | 0.4         | 12/23/92   | UNDER CONTROL  |
| .26210   | РВ       | 9.04       | 0.9         | MG/L  | 10.   | 0.4         | 1/04/93    | UNDER CONTROL  |
| 26210    | PB       | 9.44       | 0.94        | MG/L  | 10.   | 0.4         | 12/23/92   | UNDER CONTROL  |

\* \* A.

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| AMPLE    |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION | i             |
|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |
| 92.26729 | AL       | 18.        | 1.8         | MG/L  | 19.   | 0.8         | 12/23/92   | UNDER CONTROL |
| 92.26729 | BA       | 4.8        | 0.5         | MG/L  | 4.8   | 0.2         | 12/23/92   | UNDER CONTROL |
| 92.26729 | BE       | 0.38       | 0.04        | MG/L  | 0.4   | 0.02        | 12/23/92   | UNDER CONTROL |
| 92.26729 | CU       | 2.6        | 0.2         | MG/L  | 2.6   | 0.1         | 12/23/92   | UNDER CONTROL |
| 92.26729 | FE       | 0.01       |             | MG/L  | 0.0   |             | 12/23/92   | UNDER CONTROL |
| 92.26729 | PB       | 19.        | 1.9         | MG/L  | 20.   | 0.9         | 12/23/92   | UNDER CONTROL |
| 92.26730 | AL       | 12.        | 1.2         | MG/L  | 12.8  | 0.5         | 12/23/92   | UNDER CONTROL |
| 92.26730 | ВА       | 4.1        | 0.4         | MG/L  | 4.    | 0.2         | 12/23/92   | UNDER CONTROL |
| 92.26730 | BE       | 1.87       | 0.19        | MG/L  | 1.8   | 0.08        | 12/23/92   | UNDER CONTROL |
| 92.26730 | CU       | 0.47       | 0.05        | MG/L  | 0.48  | 0.02        | 12/23/92   | UNDER CONTROL |
| 92.26730 | FE       | 2.         | 1.          | MG/L  | 1.62  | 0.07        | 12/23/92   | UNDER CONTROL |
| 92.26730 | РВ       | 10.        | 1.          | MG/L  | 10.1  | 0.4         | 12/23/92   | UNDER CONTROL |

Analyst Reviewer Section Leader QA Officer REPORT NUMBER: 16603 <u>1/7/93</u> <u>1/12/93</u> Date Date 1/7/23 Date 173

 $\boldsymbol{\gamma}$  Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

348, ftal IR, Ba, Re, Cen, Fe, Pb

\*\*\*\*\*\*\*\*\* EM-9 ANALYTICAL REPORT \*\*\*\*\*\*\*\*\*\*

|                             | Prepared by: CB             | on 10-Feb- <b>1993</b> | 1-71.68 |
|-----------------------------|-----------------------------|------------------------|---------|
| REQUEST NUMBER: 13502 MATRI | X: SS ANALYST: JANET MORGAN | PROGRAM CODE: M106     |         |
| OWNER: Philip R. Fresquez   | GROUP: EM-8 MAIL-STOP:      | K490 PHONE: 7-0815     |         |
| ANALYTICAL TECHNIQUE: ICPES | ANALYTICAL PROCEDURE: 6010  | NOTEBOOK: 10523 PAGE:  | 75      |

#### CUSTOMER SAMPLES:

| IF | PLES:           |               |                    |                      |                           |       |                        | -              | , <u>,</u><br>, | $\sum_{i=1}^{n}$ |
|----|-----------------|---------------|--------------------|----------------------|---------------------------|-------|------------------------|----------------|-----------------|------------------|
|    | CUSTOMER<br>NUM | SAMPLE<br>NUM | ANALYSIS           | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | COMPLETION<br>DATE     | COMMENT:       | °€ €.           | /                |
|    | PF-368-W-20     | 92.27472      | AL                 | 36349.               | 7270.                     | UG/G  | 2/09/93                | mo             | 105             | 595 V.C.         |
|    | PF-368-W-20     | 92.27472      | BA                 | 605.                 | 121.                      | UG/G  | 2/09/93                | < 4000         | sh-             |                  |
|    | PF-368-W-20     | 92.27472      | BE                 | 1.                   | 0.2                       | UG/G  | 2/09/93                | J< 5 W         | $\sim$          |                  |
|    | PF-368-W-20     | 92.27472      | CU                 | 61.                  | 12.                       | UG/G  | 2/09/93                | nne =1         | J.B             |                  |
|    | PF-368-W-20     | 92.27472      | FE                 | 15128.               | 3026.                     | UG/G  | 2/09/93                | nont           |                 |                  |
|    | PF-368-W-20     | 92.27472      | PB                 | 24.                  | 5.                        | UG/G  | 2/09/93                | nne            |                 |                  |
| -  | PF-368-W-40     | 92.27473      | AL                 | 41719.               | 8344.                     | UG/G  | 2/09/93 (-             |                |                 |                  |
|    | PF-368-W-40     | 92.27473      | BA                 | 692.                 | 138.                      | UG/G  | 2/09/93                | )              |                 | A 10.            |
|    | PF-368-W-40     | 92.27473      | BE                 | 1.4                  | 0.3                       | UG/G  | 2/09/93                | A              | $\leq j'$       | A.               |
|    | PF-36B-W-40     | 92.27473      | CU                 | 52.                  | 10.                       | UG/G  | 2/09/93 +              | JUNG.          |                 |                  |
|    | PF-36B-W-40     | 92.27473      | FE                 | 15580.               | 3116.                     | UG/G  | 2/09/93                |                |                 |                  |
|    | PF-368-W-40     | 92.27473      | PB                 | 33.                  | 7.                        | UG/G  | 2/09/93                | ·              |                 |                  |
|    | PF-368-W-60     | 92.27474      | AL                 | 66033.               | 13207.                    | UG/G  | 2/09/93 1-             | )              |                 |                  |
|    | PF-36B-W-60     | 92.27474      | BA                 | 544.                 | 109.                      | UG/G  | 2/09/93                | 1              |                 |                  |
|    | PF-36B-W-60     | 92.27474      | BE                 | 2.5                  | 0.5                       | UG/G  | 2/09/93                | (-)            | -               |                  |
|    | PF-368-W-60     | 92.27474      | CU                 | 36.                  | 7.                        | UG/G  | 2/09/93 🤟              |                |                 |                  |
|    | PF-368-W-60     | 92.27474      | FE                 | 18245.               | 3649.                     | UG/G  | 2/09/93                |                |                 |                  |
|    | PF-368-W-60     | 92.27474      | PB                 | 37.                  | 7.                        | UG/G  | 2/09/93 <sup>FL</sup>  | -              |                 |                  |
|    | PF-368-W-100    | 92.27475      | AL                 | 43621.               | 8724.                     | UG/G  | 2/09/93 ⊱              |                |                 |                  |
|    | PF-368-W-100    | 92.27475      | BA                 | 784.                 | 157.                      | UG/G  | 2/09/93 %              | · ý            |                 |                  |
|    | PF-368-W-100    | 92.27475      | BE                 | 1.8                  | 0.4                       | UG/G  | 2/09/93 🔑              |                |                 |                  |
|    | PF-368-W-100    | 92.27475      | CU                 | 117.                 | 23.                       | UG/G  | 2/09/93 🎸              | - > Will       |                 |                  |
|    | PF-368-W-100    | 92.27475      | FE                 | 16370.               | 3274.                     | UG/G  | 2/09/93 i^-            |                |                 |                  |
|    | PF-368-W-100    | 92.27475      | PB                 | 35.                  | 7.                        | UG/G  | 2/09/93 🎲              |                |                 |                  |
|    | PF-368-W-150    | 92.27476      | AL                 | 64237.               | 12847.                    | UG/G  | 2/09/93 A              |                |                 |                  |
|    | PF-368-W-150    | 92.27476      | BA                 | 524.                 | 105.                      | UG/G  | 2/09/93 💤              | - 1            |                 |                  |
|    | PF-368-W-150    | 92.27476      | BE                 | 3.8                  | 0.8                       | UG/G  | 2/09/93 / <sup>L</sup> | - M            |                 |                  |
|    | PF-368-W-150    | 92.27476      | CU                 | 51.                  | 10.                       | UG/G  | 2/09/93 N              | - > 6. 6.6     |                 |                  |
|    | PF-368-W-150    | 92.27476      | FE                 | 17001.               | 3400.                     | UG/G  | 2/09/93 🦿              | 1-             |                 |                  |
|    | PF-368-W-150    | 92.27476      | PB                 | 36.                  | 7.                        | UG/G  | 2/09/93 🕻              | $\mathcal{V}$  |                 |                  |
|    | PF-368-E-20     | 92.27477      | AL                 | 39064.               | 7813.                     | UG/G  | 2/09/93                | <del>.</del> , |                 |                  |
|    | PE-368-E-20     | 92.27477      | ' BÁ               | 629.                 | 126.                      | UG/G  | 2/09/93                | - /            |                 |                  |
|    | PE-368-E-20     | 92.27477      | BE                 | 1.2                  | 0.2                       | UG/G  | 2/09/93 1              | - °F-          | ~               |                  |
|    | PF-368-E-20     | 92.27477      | 7 CU               | 92.                  | 18.                       | UG/G  | 2/09/93                | - > u!u.3      |                 |                  |
|    | PF-368-F-20     | 92.27477      | FE                 | 13433.               | 2687.                     | UG/G  | 2/09/93 d              | -              |                 |                  |
|    | DF-368-F-20     | 92.27477      | 7 PB               | 36.                  | 7.                        | UG/G  | 2/09/93                | 1              |                 |                  |
|    | DE-368-E-40     | 02 27479      | . <u>.</u><br>R Al | 34902.               | 6980.                     | UG/G  | 2/09/93                | +              |                 |                  |
|    | FF-JUD-E-40     | 76.619/6      |                    |                      |                           |       |                        |                |                 |                  |

| PF-36B-E-40 92.27478 BA  | 538.   | 108.   | UG/G | 2/09/93                |
|--------------------------|--------|--------|------|------------------------|
| PF-36B-E-40 92.27478 BE  | 1.2    | 0.2    | UG/G | 2/09/93 🌮              |
| PF-36B-E-40 92.27478 CU  | 216.   | 43.    | UG/G | 2/09/93                |
| PF-36B-E-40 92.27478 FE  | 16718. | 3344.  | UG/G | 2/09/93                |
| PF-368-E-40 92.27478 PB  | 30.    | 6.     | UG/G | 2/09/93                |
| PF-368-E-60 92.27479 AL  | 37618. | 7524.  | UG/G | 2/09/93                |
| PF-36B-E-60 92.27479 BA  | 660.   | 132.   | UG/G | 2/09/93                |
| PF-368-E-60 92.27479 BE  | 1.2    | 0.2    | UG/G | 2/09/93                |
| PF-368-E-60 92.27479 CU  | 189.   | 38.    | UG/G | 2/09/93 14 70.00       |
| PF-368-E-60 92.27479 FE  | 16518. | 3304.  | UG/G | 2/09/93 81-            |
| PF-36B-E-60 92.27479 PB  | 46.    | 9.     | UG/G | 2/09/93                |
| PF-36B-E-100 92.27480 AL | 41298. | 8260.  | UG/G | 2/09/93                |
| PF-36B-E-100 92.27480 BA | 627.   | 125.   | UG/G | 2/09/93 00             |
| PF-368-E-100 92.27480 BE | 1.5    | 0.3    | UG/G | 2/09/93                |
| PF-368-E-100 92.27480 CU | 85.    | 17.    | UG/G | 2/09/93 16 7 WIG       |
| PF-308-E-100 92.27480 FE | 15524. | 3105.  | UG/G | 2/09/93                |
| PF-308-E-100 92.27480 PB | 40.    | 9.     | UG/G | 2/09/93                |
| PF-308-E-150 92.27481 AL | 61223. | 12245. | UG/G | 2/09/93                |
| PF-308-E-150 92.27481 BA | 409.   | 94.    | UG/G | 2/09/93 (1)-           |
| PF-308-E-150 92.27481 BE | 2.1    | 0.4    | UG/G | 2/09/93                |
| PF-368-E-150 92.27481 CU | 10.    | 2.     | UG/G | 2/09/93                |
| PF-308-E-150 92.27481 FE | 18959. | 3792.  | UG/G | 2/09/93 42/            |
| PF-308-E-150 92.27481 PB | 50.    | 6.     | UG/G | 2/09/93 /0             |
| PF-368-N-20 92.27482 AL  | 4/146. | 7429.  | UG/G | 2/09/93                |
| PF-368-N-20 92.27482 BA  | 605.   | 121.   | UG/G | 2/09/93                |
| PF-368-N-20 92.27482 BE  | 1.2    | 0.2    | UG/G | 2/09/93                |
| PF-308-N-20 92.27482 CU  | 261.   | 52.    | UG/G | 2/09/93 in $> 0.015$   |
| PF-308-N-20 92.27482 FE  | 15818. | 2764.  | UG/G | 2/09/93 46             |
| PF-308-N-20 92.27482 PB  | 51.    | 6.     | UG/G | 2/09/93                |
| PF-368-N-40 92.27483 AL  | 43634. | 8727.  | UG/G | 2/09/93 +              |
| PF-308-N-40 92.27485 BA  | 855.   | 1/1.   | UG/G | 2/09/93                |
| PF-308-N-40 92.27485 BE  | 1.5    | 0.3    | UG/G | 2/09/93                |
| PF-368-N-40 92.27483 CU  | 82.    | 16.    | UG/G | 2/09/93 - > 61. 6. 43  |
| PF-308-N-40 92.27483 FE  | 15334. | 3067.  | UG/G | 2/09/93 1              |
| PF-308-N-40 92.27483 PB  | 94.    | 19.    | UG/G | 2/09/93                |
| PF-36B-N-60 92.27484 AL  | 34790. | 6958.  | UG/G | 2/09/93                |
| PF-308-N-60 92.27484 BA  | 577.   | 115.   | UG/G | 2/09/93                |
| PF-36B-N-6U 92.27484 BE  | 1.     | 0.2    | UG/G | 2/09/93 r-             |
| PF-368-N-60 92.27484 CU  | 25.    | 5.     | UG/G | 2/09/93                |
| PF-308-N-60 92.27484 FE  | 16/82. | 3356.  | UG/G | 2/09/93                |
| PF-368-N-60 92.27484 PB  | 15.    | 3.     | UG/G | 2/09/93                |
| PF-368-N-100 92.27485 AL | 61184. | 12237. | UG/G | 2/09/93                |
| PF-308-N-100 92.27485 BA | 885.   | 177.   | UG/G | 2/09/93                |
| PF-368-N-100 92.27485 BE | 2.3    | 0.5    | UG/G | 2/09/93 1~             |
| PF-368-N-100 92.27485 CU | 56.    | 11.    | UG/G | 2/09/93                |
| PF-308-N-100 92.27485 FE | 13389. | 2678.  | UG/G | 2/09/93                |
| PF-36B-N-100 92.27485 PB | 49.    | 10.    | UG/G | 2/09/93                |
| PF-36B-N-150 92.27486 AL | 60069. | 12014. | UG/G | 2/09/93                |
| PF-368-N-150 92.27486 BA | 592.   | 118.   | UG/G | 2/09/93                |
| PF-36B-N-150 92.27486 BE | 2.5    | 0.5    | UG/G | 2/09/93 3 <sub>7</sub> |
| PF-36B-N-150 92.27486 CU | 35.    | 7.     | UG/G | 2/09/93 (              |
| PF-36B-N-150 92.27486 FE | 15184. | 3037.  | UG/G | 2/09/93                |
| PF-36B-N-150 92.27486 PB | 53.    | 11.    | UG/G | 2/09/93                |
| PF-368-S-20 92.27487 AL  | 39201. | 7840.  | UG/G | 2/09/93                |
| PF-36B-S-20 92.27487 BA  | 600.   | 120.   | UG/G | 2/09/93                |
| PF-36B-S-20 92.27487 BE  | 1.3    | 0.3    | UG/G | 2/09/93 34             |
| PF-36B-S-20 92.27487 CU  | 91.    | 18.    | UG/G | 2/09/93 か ー い、し、が      |
| PF-36B-S-20 92.27487 FE  | 19282. | 3856.  | UG/G | 2/09/93 ×              |
| PF-36B-S-20 92.27487 PB  | 35.    | 7.     | UG/G | 2/09/93 Six            |
| PF-36B-S-40 92.27488 AL  | 36811. | 7362.  | UG/G | 2/09/93 <sub>N</sub>   |

|                      |          |            |        |        |      | 1                 |
|----------------------|----------|------------|--------|--------|------|-------------------|
| PF-36B-S-40          | 92.27488 | BA         | 648.   | 130.   | UG/G | 2/09/93           |
| PF-368-S-40          | 92.27488 | BE         | 1.1    | 0.2    | UG/G | 2/09/93           |
| PF- <b>36B-S-4</b> 0 | 92.27488 | CU         | 54.    | 11.    | UG/G | 2/09/93           |
| PF-368-S-40          | 92.27488 | FE         | 14804. | 2961.  | UG/G | 2/09/93           |
| PF-368-S-40          | 92.27488 | РВ         | 30.    | 6.     | UG/G | 2/09/93           |
| PF-36B-S-60          | 92.27489 | AL         | 51039. | 10208. | UG/G | 2/09/93           |
| PF-36B-S-60          | 92.27489 | BA         | 493.   | 99.    | UG/G | 2/09/93 m         |
| PF-36B-S-60          | 92.27489 | BE         | 2.     | 0.4    | UG/G | 2/09/93 1 1       |
| PF-36B-S-60          | 92.27489 | CU         | 30.    | 6.     | UG/G | 2/09/93 1/2       |
| PF-368-S-60          | 92.27489 | FE         | 14317. | 2863.  | UG/G | 2/09/93 (/        |
| PF-36B-S-60          | 92.27489 | P8         | 39.    | 8.     | UG/G | 2/09/93 1/        |
| PF-368-S-100         | 92.27490 | AL         | 62796. | 12559. | UG/G | 2/09/93 &         |
| PF-36B-S-100         | 92.27490 | BA         | 390.   | 78.    | UG/G | 2/09/93           |
| PF-368-S-100         | 92.27490 | BE         | 2.6    | 0.5    | UG/G | 2/09/93 🖓         |
| PF-368-S-100         | 92.27490 | CU         | 82.    | 16.    | UG/G | 2/09/93           |
| PF-368-S-100         | 92.27490 | FE         | 16231. | 3246.  | UG/G | 2/09/93 🔨         |
| PF-36B-S-100         | 92.27490 | PB         | 47.    | 9.     | UG/G | 2/09/93 1/        |
| PF-36B-S-150         | 92.27491 | AL         | 56471. | 11294. | UG/G | 2/09/93           |
| PF-368-S-150         | 92.27491 | BA         | 444.   | 89.    | UG/G | 2/09/93 6 1       |
| PF-368-S-150         | 92.27491 | BE         | 2.2    | 0.4    | UG/G | 2/09/93           |
| PF-368-S-150         | 92.27491 | CU         | 18.    | 4      | UG/G | 2/09/93 🌾 🎽       |
| PF-368-S-150         | 92.27491 | FE         | 15824. | 3165.  | UG/G | 2/09/93 y/~       |
| PF-368-S-150         | 92.27491 | PB         | 39.    | 8.     | UG/G | 2/09/93           |
| PF-36B-SED           | 92.27492 | AL         | 55216. | 11043. | UG/G | 2/09/93           |
| PF-36B-SED           | 92.27492 | BA         | 606.   | 121.   | UG/G | 2/09/93           |
| PF-36B-SED           | 92.27492 | 8E         | 1.9    | 0.4    | UG/G | 2/09/93           |
| PF-368-SED           | 92.27492 | cu         | 161.   | 32.    | UG/G | 2/09/93 A JU.L.B. |
| PF-368-SED           | 92.27492 | FE         | 16813. | 3363.  | UG/G | 2/09/93           |
| PF-368-SED           | 92.27492 | PB         | 55.    | 11.    | UG/G | 2/09/93           |
| PF-368-0-0           | 92.27493 | AL         | 37510. | 7502.  | UG/G | 2/09/93 🎼         |
| PF-368-0-0           | 92.27493 | BA         | 577.   | 115.   | UG/G | 2/09/93 1~        |
| PF-368-0-0           | 92.27493 | BE         | 1.1    | 0.2    | UG/G | 2/09/93 12        |
| PF-368-0-0           | 92.27493 | CU         | 53.    | 11.    | UG/G | 2/09/93           |
| PF-36B-0-0           | 92.27493 | FE         | 15015. | 3003.  | UG/G | 2/09/93 🦗         |
| PF-368-0-0           | 92.27493 | P <b>B</b> | 23.    | 5.     | UG/G | 2/09/93 🕡         |
| PF-368-E60R          | 92.27494 | AL         | 36732. | 7346.  | UG/G | 2/09/93 A         |
| PF-36B-E60R          | 92.27494 | BA         | 626.   | 125.   | UG/G | 2/09/93           |
| PF-368-E60R          | 92.27494 | BE         | 1.1    | 0.2    | UG/G | 2/09/93 1-        |
| PF-368-E60R          | 92.27494 | CU         | 272.   | 54.    | UG/G | 2/09/93 12 7.413  |
| PF-368-E60R          | 92.27494 | FE         | 16986. | 3397.  | UG/G | 2/09/93           |
| PF-368-E60R          | 92.27494 | PB         | 45.    | 9.     | UG/G | 2/09/93 i         |
|                      |          |            |        |        |      |                   |

CUSTOMER SAMPLE DUPLICATES:

| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         |
|--------------|----------|----------|------------|-------------|-------|------------|---------|
| NUM          | NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT |
| PF-368-W-150 | 92.27476 | AL       | 62844.     | 12569.      | UG/G  | 2/09/93    |         |
| PF-368-W-150 | 92.27476 | BA       | 534.       | 107.        | UG/G  | 2/09/93    |         |
| PF-368-W-150 | 92.27476 | BE       | 5.         | 1.          | UG/G  | 2/09/93    |         |
| PF-368-W-150 | 92.27476 | CU       | 15.        | 3.          | UG/G  | 2/09/93    |         |
| PF-368-W-150 | 92.27476 | FE       | 18482.     | 3696.       | UG/G  | 2/09/93    |         |
| PF-368-W-150 | 92.27476 | P8       | 37.        | 7.          | UG/G  | 2/09/93    |         |
| PF-368-N-60  | 92.27484 | AL       | 36000.     | 7200.       | UG/G  | 2/09/93    |         |
| PF-368-N-60  | 92.27484 | BA       | 581.       | 116.        | UG/G  | 2/09/93    |         |
| PF-368-N-60  | 92.27484 | BE       | 1.         | 0.2         | UG/G  | 2/09/93    |         |
| PF-368-N-60  | 92.27484 | CU       | 9.         | 2.          | UG/G  | 2/09/93    |         |
| PF-368-N-60  | 92.27484 | FE       | 15463.     | 3093.       | UG/G  | 2/09/93    |         |
| PF-368-N-60  | 92.27484 | PB       | 17.        | 3.          | UG/G  | 2/09/93    |         |
|              |          |          |            |             |       |            |         |

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| PF-36B-S-150 | 92.27491 | AL | 59183. | 11837. | UG/G | 2/09/93 |
|--------------|----------|----|--------|--------|------|---------|
| PF-36B-S-150 | 92.27491 | BA | 463.   | 93.    | UG/G | 2/09/93 |
| PF-368-S-150 | 92.27491 | BE | 2.3    | 0.5    | UG/G | 2/09/93 |
| PF-368-S-150 | 92.27491 | CU | 19.    | 4.     | UG/G | 2/09/93 |
| PF-36B-S-150 | 92.27491 | FE | 17304. | 3461.  | UG/G | 2/09/93 |
| PF-36B-S-150 | 92.27491 | PB | 41.    | 8.     | UG/G | 2/09/93 |

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| REPORT NUMBER:  | 17148 (0   | continued)   |              |                  |               |               |      |
|-----------------|------------|--------------|--------------|------------------|---------------|---------------|------|
|                 |            | *****        | EM-9 QUALITY | ASSURANCE REPORT | ****          |               |      |
|                 |            | Prepared by: | : CB         | on 10-Feb-1993   | 5             |               |      |
| REQUEST NUMBER: | 13502      | MATRIX: SS   | ANALYST:     | JANET MORGAN     |               | PROGRAM CODE: | M106 |
| OWNER: Philip R | . Fresque: | z GROUP:     | : EM-8       | MAIL-STOP: K490  | PHONE: 7-0815 |               |      |
| NOTEBOOK: 1052  | 3 PAGE:    | 75           |              |                  |               |               |      |

# SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION |                 |  |
|----------|----------|------------|-------------|-------|-------|-------------|------------|-----------------|--|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT         |  |
| 00.00594 | AL       | 8.9        | 1.8         | x     | 9.38  | 0.17        | 2/09/93    | UNDER CONTROL   |  |
| 00.00594 | BA       | 851.       | 170.        | UG/G  | 879.  | 47.         | 2/09/93    | UNDER CONTROL   |  |
| `0.00594 | BE       | 2.1        | 0.5         | UG/G  | 1.98  | 0.29        | 2/09/93    | UNDER CONTROL   |  |
| J.00594  | CU       | 53.        | 11.         | UG/G  | 61.   | 3.          | 2/09/93    | UNDER CONTROL   |  |
| 00.00594 | FE       | 5.4        | 1.1         | x     | 6.    | 0.13        | 2/09/93    | UNDER CONTROL   |  |
| 00.00594 | РВ       | 25.        | 5.          | UG/G  | 21.   | 4.          | 2/09/93    | UNDER CONTROL   |  |
| 00.00598 | AL       | 2.1        | 0.4         | x     | 3.06  | 0.11        | 2/09/93    | WARNING 2-3 SIG |  |
| 00.00598 | BA       | 163.       | 33.         | UG/G  | 300.  | 40.         | 2/09/93    | WARNING 2-3 SIG |  |
| 00.00598 | BE       | 0.6        | 0.1         | UG/G  | 0.81  | 0.15        | 2/09/93    | UNDER CONTROL   |  |
| 00.00598 | cu       | 10.        | 7.          | UG/G  | 17.   | 1.          | 2/09/93    | UNDER CONTROL   |  |
| 00.00598 | FE       | 1.2        | 0.2         | x     | 1.51  | 0.06        | 2/09/93    | UNDER CONTROL   |  |
| 00.00598 | PB       | 12.        | 2.          | UG/G  | 14.   | 3.          | 2/09/93    | UNDER CONTROL   |  |

# SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | ec    | QC          | COMPLETION |               |  |
|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|--|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |  |
| 92.27509 | AL       | 10.        | 2.          | MG/L  | 10.   | 0.4         | 2/09/93    | UNDER CONTROL |  |
| 92.27509 | BA       | 3.         | 1.          | MG/L  | 2.6   | 0.1         | 2/09/93    | UNDER CONTROL |  |
| 92.27509 | BE       | 1.3        | 0.3         | MG/L  | 1.4   | 0.06        | 2/09/93    | UNDER CONTROL |  |
| 92.27509 | CU       | 0.2        | 0.1         | MG/L  | 0.26  | 0.01        | 2/09/93    | UNDER CONTROL |  |
| 92.27509 | FE       | 0.3        | 0.2         | MG/L  | 0.31  | 0.01        | 2/09/93    | UNDER CONTROL |  |
| 92.27509 | PB       | 4.         | 1.          | MG/L  | 4.    | 0.2         | 2/09/93    | UNDER CONTROL |  |
| 92.27510 | AL       | 1.         | 0.5         | MG/L  | 1.2   | 0.05        | 2/09/93    | UNDER CONTROL |  |
| 2,27510  | BA       | < 0.01     |             | MG/L  | 0.0   |             | 2/09/93    | UNDER CONTROL |  |
| .27510   | BE       | 2.9        | 0.6         | MG/L  | 3.2   | 0.1         | 2/09/93    | UNDER CONTROL |  |
| y2,27510 | cu       | 2.2        | 0.4         | MG/L  | 2.19  | 0.09        | 2/09/93    | UNDER CONTROL |  |
| 92.27510 | FE       | 2.4        | 0.5         | MG/L  | 2.42  | 0.1         | 2/09/93    | UNDER CONTROL |  |
| 92.27510 | PB       | < 0.1      |             | MG/L  | 0.0   |             | 2/09/93    | UNDER CONTROL |  |

ORT NUMBER: 17148

<u>PEC</u> Reviewer Analyst 2/14/93 02/11/93

Section Leader QA Officer

2/19/93

2/19/93

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

# EM-9 SEMIVOLATILE ORGANIC ANALYSIS SUMMARY OF ANALYTICAL RESULTS

TO: Philip R. Fresquez FROM: Kevin Cantrell, EM-9 Organic section THROUGH: Chris Leibman, EM-9 Organic section leader Anthony Lombardo, EM-9 Organic section Trainer

REQUEST NUMBER: 13439 MATRIX: Soil SUMMARY DATE: November 9, 1992

|                     |              |                               | pab               |                |       |                    |
|---------------------|--------------|-------------------------------|-------------------|----------------|-------|--------------------|
|                     | SAMPLE<br>ID | TARGET COMPOUNDS<br>FOUND     | AMOUNT<br>(ug/Kg) | LOQ<br>(ug/Kg) | TICs  | EPH anim<br>firet. |
|                     | 92.26725     | (Blank 8/31/92) NONE          | <330              | 330            | N     |                    |
|                     | 92.26726     | (Blank 9/03/92) NONE          | <330              | 330            | N     | ,                  |
|                     | 92.26677     | bis-(2-Ethylhexyl)phthalate   | 570               | 330            | N     |                    |
|                     | 92.26678     | NONE                          | <330              | 330            | Y /   | 、                  |
| 5-50                | 92.26679     | 2,4-Dinitrotoluene            | 4500              | 330            | ү 🗸   | 1. ( 2, 3 de nut   |
|                     |              | N-Nitrosodiphenylamine        | 700               |                | oh    | ( and )            |
| _                   |              | Di-n-butylphthalate           | 2100              |                | ×     | Bashon             |
| 5-25                | 92.26680     | 2,4-Dinitrotoluene            | 1300              | 330            | Y Z   | Do o a fat- 12     |
|                     |              | Di-n-butylphthalate           | 820               |                | sh    |                    |
|                     |              | bis-(2-Ethylhexyl)phthalate   | 7000              |                | r     | somm               |
| "A dante -          | 92.26681     | 2,4,Dinitrotoluene            | 680               | 330            | YA    |                    |
| Water of the second |              | Di-n-butylphthalate           | 540               |                | th.   |                    |
|                     |              | bis-(2-Ethylhexyl)phthalate   | 2100              |                | sh    |                    |
|                     | 92.26682     | 2,4,Dinitrotoluene            | 360               | 330            | NA    |                    |
|                     |              | Di-n-butylphthalate           | 420               |                | 1     |                    |
|                     |              | bis-(2-Ethylhexyl)phthalate   | 14300             |                |       |                    |
|                     | 92.26683     | NONE                          | <330              | 330            | N     | 23                 |
|                     | 92.26684     | NONE                          | <330              | 330            | N     |                    |
|                     | 92.26685     | NONE                          | <330              | 330            | Ŷ     |                    |
| N-10                | 92.26686     | 2,4-Dinitrotoluene            | 11600             | 330            | ÿ 🗸   |                    |
| 0                   |              | 2,6-Dinitrotoluene            | 400               |                | oh    | clepm              |
|                     |              | N-Nitrosodiphenvlamine        | 1400              |                | 4     |                    |
|                     |              | Di-n-butylphthalate           | 3300              |                | t-    |                    |
|                     | 92.26687     | bis-(2-Ethylhexyl)phthalate   | 480               | 330            | N A   |                    |
| 6-100               | 92.26688     | 2.4-Dinitrotoluene            | 11600             | 990            | v v   |                    |
| ( <b>-</b> )        |              | N-Nitrosodiphenylamine        | 1300              | 550            | T.    |                    |
|                     |              | Di-n-butylphthalate           | 7100              |                | 1-    |                    |
|                     |              | bis=(2-Ethylbeyyl)nbthalate   | 12000             |                | -     |                    |
| 6.76                | 92.26689     | 2.4-Dinitrotoluene            | 18800             | 990            | V V   |                    |
| SONTA               | nertr sardy  | N-Nitrosodiphenvlamine        | 2200              | 550            |       |                    |
| year.               | end a day :  | Di-n-butylphthalate           | 8100              |                | un-   |                    |
|                     |              | bis-(2-Ethylbeyyl)phthalate   | 3600              |                | h.    |                    |
| 6-50                | 92,26690     | 2.4-Dinitrotoluene            | 48300             | 1300           | V V   |                    |
|                     | 2120020      | 2 6-Dinitrotoluene            | 2100              | 1300           |       | Yulds 7 Ppr        |
|                     |              | N-Nitrosodinbenylamine        | 5800 /            |                | E.    |                    |
|                     |              | Di-n-butylobthalate           | 20000             |                | it    |                    |
|                     |              | bic-()-Ethylbowyl)shthelete   | 20000             | <b>.</b> 1     |       |                    |
| Web.                |              | bis-(2-Echythexyt) philidiate | 11,00             | $\rightarrow$  | MUM   |                    |
|                     |              |                               |                   |                | 111 1 |                    |
|                     |              |                               |                   |                | L'    |                    |

|            | 92.26691 | bis-(2-Ethylhexyl)phthalate | 23900 | 1300 | N / < 5'      |
|------------|----------|-----------------------------|-------|------|---------------|
|            | 92.26692 | 2,4-Dinitrotoluene          | 690   | 330  | N 14          |
| <i>~ ~</i> |          | Di-n-butylphthalate         | 970   |      | sh            |
| E-S        | 92.26693 | 2,4-Dinitrotoluene          | 1700  | 330  | $N \sqrt{-1}$ |
|            |          | Di-n-butylphthalate         | 1100  |      |               |
|            |          | bis-(2-Ethylhexyl)phthalate | 530   |      | 71            |
| N-100      | 92.26694 | 2,4-Dinitrotoluene          | 4800  | 330  | Y ~ >1        |
|            |          | N-Nitrosodiphenylamine      | 1300  |      | 1             |
|            |          | Di-n-butylphthalate         | 4400  |      | ·n<br>J       |
|            |          | bis-(2-Ethylhexyl)phthalate | 5600  |      | M.            |
|            | 92.26695 | bis-(2-Ethylhexyl)phthalate | 1500  | 330  | N             |
|            | 92.26696 | NONE                        | <330  | 330  | N /           |
|            | 92.26697 | bis-(2-Ethylhexyl)phthalate | 550   | 330  | N J           |
|            | 92.26698 | NONE                        | <330  | 330  | N             |
|            | 92.26699 | bis-(2-Ethylhexyl)phthalate | 480   | 330  | ¥ /           |

LOQ: Limit Of Quantitation TICs: Tentatively identified compounds

Samples were extracted by mixing approximately 30 grams of sample with 60 grams of sodium sulfate and sonicating with 100 ml of methylene chloride. The methylene chloride was separated from the solids and sonication was repeated with two additional 100 ml aliquot of methylene chloride. Sample extracts were combined and concentrated to 1.0 ml final volume. Appropriate surrogate standards were added prior to extraction. Analysis was performed by capillary column GC/MS methods. Extraction and analysis methods are consistent with EPA SW-846 methods 3500 and 8270. Analytical column used was a J&W scientific DB5.625 30 M X .25 mm ID.

Many samples were found to contain HSL target compounds above the specified limit of quantitation (see above). Non-target peaks were not identified or quantitated for this request.

Samples 92.26726 (blank) and 92.26697 had low recoveries for the surrogates 2-Fluorophenol, Phenol(d6), and Nitrobenzene(d5), which was probably a result of being concentrated to a low level. Surrogate recoveries were within EPA criteria for all the remaining analyses. Internal standard responses were within criteria for all analyses.

All analytical hold times were met for this request. If you have any question regarding this data, please call either Anthony Lombardo or Laura Kelly at 667-5889.

### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 SURROGATE RECOVERIES FOR SEMI-VOLATILES IN SOIL TYPE MATRICES

REQUEST #: 13439

| NUMBER OF SAMPLES: | 22       |
|--------------------|----------|
| MATRIX             | S        |
| ANALYST:           | AJL      |
| Date:              | 12/02/92 |

SURROGATE RECOVERIES

#### SURROGATE RECOVERIES IN PERCENT (%)

|    |           | NITRO- 2,4 |             |           |        |         | ,6-       |           |           |     |
|----|-----------|------------|-------------|-----------|--------|---------|-----------|-----------|-----------|-----|
|    |           |            |             | 2-FLUORO- | PHENOL | BENZENE | 2-FLUORO- | TRIBROMO- | TERPHENYL |     |
|    | SAMPLE    | NUMBERS    | TYPE        | PHENOL    | (D6)   | (D5)    | BIPHENYL  | PHENOL    | (D14)     |     |
| 1  |           | 892.26725  | BLANK       | 42        | 46     | 49      | 53        | 64        | <br>74    | • • |
| 2  |           | \$92.26723 | SAMPLE      | 29        | 34     | 32      | 47        | 71        | 83        |     |
| 3  |           | M92.26677  | MATRIX SPIK | 32        | 38     | 42      | 57        | 61        | 103       |     |
| 4  |           | 092.26677  | MATRIX SP-D | 43        | 48     | 50      | 62        | 59        | 111       |     |
| 5  |           | \$92.26677 | SAMPLE      | 29        | 34     | 32      | 42        | 78        | 58        |     |
| 6  |           | \$92.26678 | SAMPLE      | 48        | 54     | 53      | 59        | 60        | 69        |     |
| 7  |           | \$92.26679 | SAMPLE      | 31        | 41     | 36      | 52        | 65        | 76        |     |
| •  |           | \$92.26680 | SAMPLE      | 33        | 39     | 34      | 46        | 46        | 66        |     |
| ¥  |           | \$92.26681 | SAMPLE      | 24        | 29     | 26      | 38        | 51        | 71        |     |
| 10 |           | \$92.26682 | SAMPLE      | 22 *      | 27     | 26      | 39        | 41        | 48        |     |
| 11 |           | \$92.26683 | SAMPLE      | 28        | 33     | 30      | 38        | 57        | 67        |     |
| 12 |           | \$92.26684 | SAMPLE      | 45        | 51     | 46      | 55        | 59        | 76        |     |
| 13 |           | \$92.26685 | SAMPLE      | 25        | 33     | 29      | 50        | 52        | 63        |     |
| 14 |           | \$92.26686 | SAMPLE      | 25        | 31     | 27      | 39        | 41        | 64        |     |
| 15 |           | \$92.26687 | SAMPLE      | 27        | 33     | 31      | 42        | 44        | 49        |     |
| 16 |           | \$92.26688 | SAMPLE      | 52        | 58     | 56      | 83        | 70        | 80        |     |
| 17 |           | \$92.26689 | SAMPLE      | 33        | 44     | 41      | 68        | 74        | 91        |     |
| 18 |           | \$92.26690 | SAMPLE      | 29        | 43     | 37      | 72        | 68        | 82        |     |
| 19 |           | \$92.26691 | SAMPLE      | 47        | 55     | 54      | 79        | 64        | 98        |     |
| 20 |           | \$92.26692 | SAMPLE      | 58        | 65     | 65      | 73        | 83        | 08        |     |
| 21 |           | \$92.26693 | SAMPLE      | 26        | 20     | 28      | 30        | 37        | 60        |     |
| 22 |           | \$92,26694 | SAMPLE      | 51        | 66     | 67      | 75        | 70        | 80        |     |
|    |           |            | 0/011 22    | 51        |        | 07      | ()        | 70        | 09        |     |
|    |           |            |             |           |        |         |           |           |           |     |
| A  | verage %  | Surrogate  | Recovery    | 33        | 39     | 38      | 49        | 60        | 76        |     |
| D  | efined Lo | wer QC Lim | nits (%)    | 23        | 24     | 23      | 30        | 19        | 18        |     |
| D  | etined Up | per QC Lim | nts (%)     | 121       | 113    | 120     | 115       | 122       | 137       |     |
| c  | bserved L | ower QC Li | mits (%)    | 22        | 27     | 26      | 38        | 41        | 48        |     |
| 0  | bserved U | pper QC Li | mits (%)    | 48        | 54     | 53      | 62        | 78        | 111       |     |

"\*" If % Surrogate Recovery is Followed by a "\*", it is out of QC Limits.

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### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 SURROGATE RECOVERIES FOR SEMI-VOLATILES IN SOIL TYPE MATRICES

| REQUEST #:         | 13439    |
|--------------------|----------|
| NUMBER OF SAMPLES: | 9        |
| MATRIX             | S        |
| ANALYST:           | AJL      |
| Date:              | 11/06/92 |

SURROGATE RECOVERIES

# SURROGATE

RECOVERIES IN PERCENT (%)

|    |                      |             |           |        | NITRO-       |           | 2,4,6-    |           |  |
|----|----------------------|-------------|-----------|--------|--------------|-----------|-----------|-----------|--|
|    |                      |             | 2-FLUORO- | PHENOL | BENZENE      | 2-FLUORO- | TRIBROMO- | TERPHENYL |  |
|    | SAMPLE NUMBERS       | TYPE        | PHENOL    | (D6)   | (D5)         | BIPHENYL  | PHENOL    | (D14)     |  |
|    | B92.26726            | BLANK       | 0 *       | , O    | <b>*</b> 0 * | 10 *      | 73        | 86        |  |
| 2  | \$92.26724           | SAMPLE      | 33        | 44     | 41           | 60        | 63        | 76        |  |
| 3  | M92.26406            | MATRIX SPIK | 52        | 63     | 65           | 73        | 93        | 104       |  |
| 4  | D92.26406            | MATRIX SP-D | 57        | 63     | 62           | 72        | 91        | 100       |  |
| 5  | \$92.26695           | SAMPLE      | 22 *      | 26     | 23           | 34        | 41        | 69        |  |
| 6  | \$92.26696           | SAMPLE      | 36        | 45     | 41           | 59        | 70        | 82        |  |
| 7  | \$92.26697           | SAMPLE /    | 8 *       | 22     | * 15 *       | 45        | 78        | 72        |  |
| 8  | \$92.26698           | SAMPLE      | 35        | 37     | 35           | 45        | 47        | 49        |  |
| 9  | S92.26699            | SAMPLE 🖌    | 24        | 34     | 31           | 44        | 39        | 67        |  |
| 10 |                      |             |           |        |              |           |           |           |  |
| 11 |                      |             |           |        |              |           |           |           |  |
| 12 |                      |             |           |        |              |           |           |           |  |
| 13 |                      |             |           |        |              |           |           |           |  |
| 14 |                      |             |           |        |              |           |           |           |  |
| 15 |                      |             |           |        |              |           |           |           |  |
| 16 |                      |             |           |        |              |           |           |           |  |
| 17 |                      |             |           |        |              |           |           |           |  |
| 18 |                      |             |           |        |              |           |           |           |  |
| 19 |                      |             |           |        |              |           |           |           |  |
| 20 |                      |             |           |        |              |           |           |           |  |
| 21 |                      |             |           |        |              |           |           |           |  |
| 22 |                      |             |           |        |              |           |           |           |  |
|    |                      |             |           |        |              |           |           |           |  |
|    |                      |             |           |        |              |           |           |           |  |
|    | Average % Surrogate  | Recovery    | 30        | 37     | 35           | 49        | 66        | 79        |  |
|    | Defined Lower QC Lim | its (%)     | 23        | 24     | 23           | 30        | 19        | 18        |  |
|    | Defined Upper QC Lim | its (%)     | 121       | 113    | 120          | 115       | 122       | 137       |  |
|    | Observed Lower QC Li | mits (%)    | 0         | 0      | 0            | 10        | 39        | 49        |  |
|    | Observed Upper QC Li | mits (%)    | 57        | 63     | 65           | 73        | 93        | 104       |  |

"\*" If % Surrogate Recovery is Followed by a "\*", it is out of QC Limits.

Reviewed By:

& With

### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 MATRIX SPIKE RECOVERIES FOR SEMI-VOLATILES

|                               |           | DRY WT/VOL      | AMOUNT SPI | CED   |             |
|-------------------------------|-----------|-----------------|------------|-------|-------------|
| REQUEST #:                    | 13439     | (G or L)        | IN UG/KG   |       |             |
| NUMBER OF SAMPLES:            | 9         |                 | ACIDS      | BASES | LOQ (UG/KG) |
| SPIKE ID: (STARTS M OR E)     | M92.26406 | SPIKE 26.732    | 3741       | 1870  | 330         |
| SPIKE DUP ID: (STARTS D OR F) | D92.26406 | SPIKE-DUP26.892 | 3719       | 1859  | 330         |
| RAW DATA WITH:                | 13414     |                 |            |       |             |
| ANALYST:                      | AJL       |                 |            |       |             |

|                            |       | S         | SPIKE | SPIKE-DUP |     | LOW. | UPP. |      |
|----------------------------|-------|-----------|-------|-----------|-----|------|------|------|
|                            | SPIKE | SPIKE-DUP | x     | x         |     | REC. | REC. | RPD  |
|                            | REC.  | REC.      | REC.  | REC.      | RPD | LIM. | LIM. | LIM. |
| SNOL                       | 2200  | 2200      | 59%   | 59%       | 1%  | 26   | 90   | 35   |
| 2-CHLOROPHENOL             | 2300  | 2300      | 61%   | 62%       | 1%  | 25   | 102  | 50   |
| 1,4-DICHLOROBENZENE        | 1200  | 1300      | 64%   | 70%       | 9%  | 28   | 104  | 27   |
| N-NITROSO-DI-N-PROPYLAMINE | 1400  | 1400      | 75%   | 75%       | 1%  | 41   | 126  | 38   |
| 1,2,4-TRICLOROBENZENE      | 1300  | 1300      | 70%   | 70%       | 1%  | 38   | 107  | 23   |
| 4-CHLORO-3-METHYLPHENOL    | 2800  | 2700      | 75%   | 73%       | 3%  | 26   | 103  | 33   |
| ACENAPHTHENE               | 1400  | 1300      | 75%   | 70%       | 7%  | 31   | 137  | 19   |
| 4-NITROPHENOL              | 2800  | 2700      | 75%   | 73%       | 3%  | 11   | 114  | 50   |
| 2,4-DINITROTOLUENE         | 1400  | 1400      | 75%   | 75%       | 1%  | 28   | 89   | 47   |
| PENTACHLOROPHENOL          | 3500  | 3300      | 94%   | 89%       | 5%  | 17   | 109  | 47   |
| PYRENE                     | 2000  | 2000      | 107%  | 108%      | 1%  | 35   | 142  | 36   |

"\*" If % Matrix Recovery is Followed by a "\*", it is out of QC Limits.

Reviewed By:

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### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 MATRIX SPIKE RECOVERIES FOR SEMI-VOLATILES

|  |                               |           | DRY WT/VOL      | AMOUNT SPIN | (ED   |             |
|--|-------------------------------|-----------|-----------------|-------------|-------|-------------|
|  | REQUEST #:                    | 13439     | (G or L)        | IN UG/KG    |       |             |
|  | NUMBER OF SAMPLES:            | 22        |                 | ACIDS       | BASES | LOQ (UG/KG) |
|  | SPIKE ID: (STARTS M OR E)     | M92.26677 | SPIKE 21.706    | 4607        | 2303  | 330         |
|  | SPIKE DUP ID: (STARTS D OR F) | D92.26677 | SPIKE-DUP21.792 | 4589        | 2294  | 330         |
|  | RAW DATA WITH:                | 13439     |                 |             |       |             |
|  | ANALYST:                      | AJL       |                 |             |       |             |

|                            | SP    |           | SPIKE | KE SPIKE-DUP |     | LOW. |      |      |
|----------------------------|-------|-----------|-------|--------------|-----|------|------|------|
|                            | SPIKE | SPIKE-DUP | x     | x            |     | REC. | REC. | RPD  |
|                            | REC.  | REC.      | REC.  | REC.         | RPD | LIM. | LIM. | LIM. |
| PHENOL                     | 2000  | 2400      | 43%   | 52%          | 19% | 26   | 90   | 35   |
| 2-CHLOROPHENOL             | 1900  | 2400      | 41%   | 52%          | 24% | 25   | 102  | 50   |
| 1,4-DICHLOROBENZENE        | 1000  | 1300      | 43%   | 57%          | 26% | 28   | 104  | 27   |
| N-NITROSO-DI-N-PROPYLAMINE | 1100  | 1300      | 48%   | 57%          | 17% | 41   | 126  | 38   |
| 1,2,4-TRICLOROBENZENE      | 1200  | 1300      | 52%   | 57%          | 8%  | 38   | 107  | 23   |
| 4-CHLORO-3-METHYLPHENOL    | 2900  | 2700      | 63%   | 59%          | 7%  | 26   | 103  | 33   |
| ACENAPHTHENE               | 1500  | 1600      | 65%   | 70%          | 7%  | 31   | 137  | 19   |
| 4-NITROPHENOL              | 2700  | 2700      | 59%   | 59%          | 0%  | 11   | 114  | 50   |
| 2,4-DINITROTOLUENE         | 1700  | 1600      | 74%   | 70%          | 6%  | 28   | 89   | 47   |
| PENTACHLOROPHENOL          | 2500  | 2300      | 54%   | 50%          | 8%  | 17   | 109  | 47   |
| PYRENE                     | 2700  | 2800      | 117%  | 122%         | 4%  | 35   | 142  | 36   |

"\*" If % Matrix Recovery is Followed by a "\*", it is out of QC Limits.

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Reviewed By:

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|                                     | ****                      | EM-9 ANALYTICAL REPORT *** | *****                        |                   |
|-------------------------------------|---------------------------|----------------------------|------------------------------|-------------------|
|                                     | EPA SEMIVOLATILES         | Prepared by: LAK           | on 9-Dec-1992                |                   |
| REQUEST NUMBER: 13439 MATRIX: SS    | ANALYST: ANTHONY LOMBARDO | PROGRAM CODE               | : M106 NOTEBOOK: R7336       | PAGE: 117         |
| OWNER: Philip R. Fresquez GROUP: EM | H-8 MAIL-STOP: K490       | PHONE: 7-0815 TECHNIQU     | E: GCEC ANALYTICAL PROCEDURE | E: EPA SW-846 3RD |

Tentatively Identified Compounds in Customer Sample # 92.26406

none

|                    |                           |                 | ****              | *******      | * EM-    | 9 ANALYTICAL REPO | RT ***    | ****                 |                  |
|--------------------|---------------------------|-----------------|-------------------|--------------|----------|-------------------|-----------|----------------------|------------------|
| <u>Matrix Spik</u> | <mark>e Results</mark> fo | or Sample # 92. | <u>26406</u> Date | e Collected: |          | Date Received:    |           | Date Extracted:      | Date Analyzed:   |
| CUSTOMER           | SAMPLE                    |                 | AMOUNT            | AMOUNT       |          | COMPLETION        |           | COMPOUND             |                  |
| NUMBER             | NUMBER                    | ANALYSIS        | SPIKED            | RECOVERED    | UNITS    | DATE              | COMMENT   | NAME                 |                  |
| AAA1558            | 92.26406                  | 83329           | 1870.4            | 1400.        | UG/KG    | 12/02/92          |           | Acenaphthene         |                  |
| AAA1558            | 92.26406                  | 59507           | 3740.8            | 2800.        | UG/KG    | 12/02/92          |           | 4-Chloro-3-methylphe | nol              |
| AAA1558            | 92.26406                  | 95578           | 3740.8            | 2300.        | UG/KG    | 12/02/92          |           | o-Chlorophenol       |                  |
| AAA1558            | 92.26406                  | 106467          | 1870.4            | 1200.        | UG/KG    | 12/02/92          |           | p-Dichlorobenzene (1 | ,4)              |
| AAA1558            | 92.26406                  | 121142          | 1870.4            | 1400.        | UG/KG    | 12/02/92          |           | 2,4-Dinitrotoluene   |                  |
| AAA1558            | 92.26406                  | 100027          | 3740.8            | 2800.        | UG/KG    | 12/02/92          |           | 4-Nitrophenol        |                  |
| AAA1558            | 92.26406                  | 621647          | 1870.4            | 1400.        | UG/KG    | 12/02/92          |           | N-Nitrosodi-n-propyl | amine            |
| AAA1558            | 92.26406                  | 87865           | 3740.8            | 3500.        | UG/KG    | 12/02/92          |           | Pentachlorophenol    |                  |
| AAA1558            | 92.26406                  | 108952          | 3740.8            | 2200.        | UG/KG    | 12/02/92          |           | Phenol               |                  |
| AAA1558            | 92.26406                  | 129000          | 1870.4            | 2000.        | UG/KG    | 12/02/92          |           | Pyrene               |                  |
| AAA1558            | 92.26406                  | 120821          | 1870.4            | 1300.        | UG/KG    | 12/02/92          |           | 1,2,4-Trichlorobenze | ne               |
| <u>Matrix Spik</u> | e Duplicate               | Results for Sa  | mple # 92.26406   | _ Date Co    | llected: | Date              | Received: | Date Extracted       | : Date Analyzed: |
| CUSTOMER           | SAMPLE                    |                 | AMOUNT            | AMOUNT       |          | COMPLETION        |           | COMPOUND             |                  |
| NIMBED             |                           | ANAL VSTS       | SPIKED            | RECOVERED    | UNITS    | DATE              | COMMENT   | NAME                 |                  |

| NUMBER  | NUMBER   | ANALYSIS | SPIKED  | RECOVERED | UNITS | DATE     | COMMENT | NAME                      |  |
|---------|----------|----------|---------|-----------|-------|----------|---------|---------------------------|--|
| AAA1558 | 92.26406 | 83329    | 1859.27 | 1300.     | UG/KG | 12/02/92 |         | Acenaphthene              |  |
| AAA1558 | 92.26406 | 59507    | 3718.54 | 2700.     | UG/KG | 12/02/92 |         | 4-Chloro-3-methylphenol   |  |
| AAA1558 | 92.26406 | 95578    | 3718.54 | 2300.     | UG/KG | 12/02/92 |         | o-Chlorophenol            |  |
| AAA1558 | 92.26406 | 106467   | 1859.27 | 1300.     | UG/KG | 12/02/92 |         | p-Dichlorobenzene (1,4)   |  |
| AAA1558 | 92.26406 | 121142   | 1859.27 | 1400.     | UG/KG | 12/02/92 |         | 2,4-Dinitrotoluene        |  |
| AAA1558 | 92.26406 | 100027   | 3718.54 | 2700.     | UG/KG | 12/02/92 |         | 4-Nitrophenol             |  |
| AAA1558 | 92.26406 | 621647   | 1859.27 | 1400.     | UG/KG | 12/02/92 |         | N-Nitrosodi-n-propylamine |  |
| AAA1558 | 92.26406 | 87865    | 3718.54 | 3300.     | UG/KG | 12/02/92 |         | Pentachlorophenol         |  |
| AAA1558 | 92.26406 | 108952   | 3718.54 | 2200.     | UG/KG | 12/02/92 |         | Phenol                    |  |
| AAA1558 | 92.26406 | 129000   | 1859.27 | 2000.     | UG/KG | 12/02/92 |         | Pyrene                    |  |
| AAA1558 | 92.26406 | 120821   | 1859.27 | 1300.     | UG/KG | 12/02/92 |         | 1,2,4-Trichlorobenzene    |  |
|         |          |          |         |           |       |          |         |                           |  |

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< 330.

REPORT NUMBER: 16239

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Butyl benzyl phthalate

4-Chloro-3-methylphenol

4-Chlorophenylphenyl ether

4-Chloroaniline

o-Chlorophenol

Chrysene

2-Chloronaphthalene

Di-n-butyl phthalate

|                    |              |              | **          | *********        | *** EM  | -9 ANALYTICAL REP | ********     |                 |             |                  |         |
|--------------------|--------------|--------------|-------------|------------------|---------|-------------------|--------------|-----------------|-------------|------------------|---------|
|                    |              |              | E           | PA SEMIVOLATILES | 6 Pr    | epared by: LAK    | 0            | n 9-Dec-1992    |             |                  |         |
| REQUEST NUM        | IBER: 13439  | MATRI        | X: SS ANAL  | YST: ANTHONY LO  | MBARDO  | Ρ                 | ROGRAM CODE: | M106 NOTEB      | DOK: R7336  | PAGE: 117        | i       |
| OWNER: Phi         | ilip R. Fres | quez         | GROUP: EM-8 | MAIL-STOP:       | K490    | PHONE: 7-0815     | TECHNIQUE    | : GCEC ANA      | LYTICAL PRO | CEDURE: EPA SW-8 | 346 3RD |
| <u>Customer Sa</u> | ample Result | ts, Sample # | 92.26677    | Date Collected:  | 8/25/92 | Date Received:    | 8/26/92      | Date Extracted: | 8/31/92     | Date Analyzed:   | 9/24/92 |
| CUSTOMER           | SAMPL F      |              | ANALYTICAL  | ANALYTICAL       |         | COMPLETION        |              | COMPOUND        |             |                  |         |
| NUMBER             | NUMBER       | ANALYSIS     | RESULT      | UNCERTAINTY      | UNITS   | DATE              | COMMENT      | NAME            |             |                  |         |
| PF-36A-0-0         | 92.26677     | 83329        | < 330.      |                  | UG/KG   | 12/02/92          |              | Acenaphthen     | e           |                  |         |
| PF-36A-0-0         | 92.26677     | 208968       | < 330.      |                  | UG/KG   | 12/02/92          |              | Acenaphthyl     | ene         |                  |         |
| PF-36A-0-0         | 92.26677     | 62533        | < 330.      |                  | UG/KG   | 12/02/92          |              | Aniline         |             |                  |         |
| PF-36A-0-0         | 92.26677     | 120127       | < 330.      |                  | UG/KG   | 12/02/92          |              | Anthracene      |             |                  |         |
| PF-36A-0-0         | 92.26677     | 103333       | < 330.      |                  | UG/KG   | 12/02/92          |              | Azobenzene      |             |                  |         |
| PF-36A-0-0         | 92.26677     | 92875        | < 330.      |                  | UG/KG   | 12/02/92          |              | m~Benzidine     |             |                  |         |
| PF-36A-0-0         | 92.26677     | 56553        | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[a]ant     | hracene     |                  |         |
| PF-36A-0-0         | 92.26677     | 50328        | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[a]pyr     | ene         |                  |         |
| PF-36A-0-0         | 92.26677     | 205992       | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[b]flu     | oranthene   |                  |         |
| PF-36A-0-0         | 92.26677     | 191242       | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[g,h,i     | ]perylene   |                  |         |
| PF-36A-0-0         | 92.26677     | 207089       | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[k]flu     | oranthene   |                  |         |
| PF-36A-0-0         | 92.26677     | 65850        | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzoic aci     | d           |                  |         |
| PF-36A-0-0         | 92.26677     | 100516       | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzyl alco     | hol         | •                |         |
| PF-36A-0-0         | 92.26677     | 111911       | < 330.      |                  | UG/KG   | 12/02/92          |              | Bis(2-chlor     | oethoxy)met | ;hane            |         |
| PF-36A-0-0         | 92.26677     | 111444       | < 330.      |                  | UG/KG   | 12/02/92          |              | Bis(2-chlor     | oethyl)ethe | r                |         |
| PF-36A-0-0         | 92.26677     | 108601       | < 330.      |                  | UG/KG   | 12/02/92          |              | Bis(2-chlor     | oisopropyl) | ether            |         |
| PF-36A-0-0         | 92.26677     | 117817       | 570.        | 171.             | UG/KG   | 12/02/92          |              | Bis(2-ethyl     | hexyl)phtha | ılate            |         |
| PF-36A-0-0         | 92.26677     | 101553       | < 330.      |                  | UG/KG   | 12/02/92          |              | 4-Bromophen     | ylphenyl et | :her             |         |

UG/KG

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PF-36A-0-0

PF-36A-0-0

PF-36A-0-0

PF-36A-0-0

PF-36A-0-0

PF-36A-0-0

PF-36A-0-0

PF-36A-0-0

PF-36A-

92.26677

86306

< 330.

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| CUSTOMER   | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION |         | COMPOUND                   |
|------------|----------|----------|------------|-------------|------------|------------|---------|----------------------------|
| NUMBER     | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE       | COMMENT | NAME                       |
| PF-36A-0-0 | 92.26677 | 117840   | < 330.     |             | UG/KG      | 12/02/92   |         | Di-n-octyl obthalate       |
| PF-36A-0-0 | 92.26677 | 53703    | < 330.     |             | UG/KG      | 12/02/92   |         | Dibenzo[a,h]anthracene     |
| PF-36A-0-0 | 92.26677 | 132649   | < 330.     |             | UG/KG      | 12/02/92   |         | Dibenzofuran               |
| PF-36A-0-0 | 92.26677 | 95501    | < 330.     |             | UG/KG      | 12/02/92   |         | a-Dichlorobenzene (1 2)    |
| PF-36A-0-0 | 92.26677 | 541731   | < 330.     |             | UG/KG      | 12/02/92   |         | m-Dichlorobenzene (1,3)    |
| PF-36A-0-0 | 92.26677 | 106467   | < 330.     |             | UG/KG      | 12/02/92   |         | p-Dichlorobenzene (1,4)    |
| PF-36A-0-0 | 92.26677 | 91941    | < 330.     |             | UG/KG      | 12/02/92   |         | 3.3'-Dichlorobenzidine     |
| PF-36A-0-0 | 92.26677 | 120832   | < 330.     |             | UG/KG      | 12/02/92   |         | 2.4-Dichlorophenol         |
| PF-36A-0-0 | 92.26677 | 84662    | < 330.     |             | UG/KG      | 12/02/92   |         | Diethyl phthalate          |
| PF-36A-0-0 | 92.26677 | 131113   | < 330.     |             | UG/KG      | 12/02/92   |         | Dimethyl phthalate         |
| PF-36A-0-0 | 92.26677 | 105679   | < 330.     |             | UG/KG      | 12/02/92   |         | 2.4-Dimethylphenol         |
| PF-36A-0-0 | 92.26677 | 51285    | < 330.     |             | UG/KG      | 12/02/92   |         | 2.4-Dinitrophenol          |
| PF-36A-0-0 | 92.26677 | 121142   | < 330.     |             | UG/KG      | 12/02/92   |         | 2.4-Dinitrotoluene         |
| PF-36A-0-0 | 92.26677 | 606202   | < 330.     |             | UG/KG      | 12/02/92   |         | 2.6-Dinitrotoluene         |
| PF-36A-0-0 | 92.26677 | 206440   | < 330.     |             | UG/KG      | 12/02/92   |         | Fluoranthene               |
| PF-36A-0-0 | 92.26677 | 86737    | < 330.     |             | UG/KG      | 12/02/92   |         | Fluorene                   |
| PF-36A-0-0 | 92.26677 | 118741   | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachlorobenzene          |
| PF-36A-0-0 | 92.26677 | 87683    | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachlorobutadiene        |
| PF-36A-0-0 | 92.26677 | 77474    | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachlorocyclopentadiene  |
| PF-36A-0-0 | 92.26677 | 67721    | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachloroethane           |
| PF-36A-0-0 | 92.26677 | 193395   | < 330.     |             | UG/KG      | 12/02/92   |         | Indeno[1.2.3-cd]pyrene     |
| PF-36A-0-0 | 92.26677 | 78591    | < 330.     |             | UG/KG      | 12/02/92   |         | Isophorone                 |
| PF-36A-0-0 | 92.26677 | 534521   | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Methyl-4.6-dinitrophenol |
| PF-36A-0-0 | 92.26677 | 91576    | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Methylnaphthalene        |
| PF-36A-0-0 | 92.26677 | 95487    | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Methylphenol             |
| PF-36A-0-0 | 92.26677 | 106445   | < 330.     |             | UG/KG      | 12/02/92   |         | 4-Methylphenol             |
| PF-36A-0-0 | 92.26677 | 91203    | < 330.     |             | UG/KG      | 12/02/92   |         | Naphthalene                |
| PF-36A-0-0 | 92.26677 | 88744    | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Nitroaniline             |
| PF-36A-0-0 | 92.26677 | 99092    | < 330.     |             | UG/KG      | 12/02/92   |         | 3-Nitroaniline             |
| PF-36A-0-0 | 92.26677 | 100016   | < 330.     |             | UG/KG      | 12/02/92   |         | 4-Nitroaniline             |
| PF-36A-0-0 | 92.26677 | 98953    | < 330.     |             | UG/KG      | 12/02/92   |         | Nitrobenzene               |
| PF-36A-0-0 | 92.26677 | 88755    | < 330.     |             | ,<br>UG/KG | 12/02/92   |         | 2-Nitrophenol              |
| PF-36A-0-0 | 92.26677 | 100027   | < 330.     |             | ,<br>UG/KG | 12/02/92   |         | 4-Nitrophenol              |
| PF-36A-0-0 | 92.26677 | 621647   | < 330.     |             | UG/KG      | 12/02/92   |         | N-Nitrosodi-n-propylamine  |
| PF-36A-0-0 | 92,26677 | 62759    | < 330      |             |            | 12/02/02   |         |                            |

UG/KG

02/92

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N-Nitrosodiphenylamine

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|------------|----------------------------------------|----------|------------|-------------|-------|------------|---------|------------------------|--|--|--|--|--|
| CUSTOMER   | SAMPLE                                 |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |  |  |  |
| NUMBER     | NUMBER                                 | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |  |  |  |
| PF-36A-0-0 | 92.26677                               | 87865    | < 330.     |             | UG/KG | 12/02/92   |         | Pentachlorophenol      |  |  |  |  |  |
| PF-36A-0-0 | 92.26677                               | 85018    | < 330.     |             | UG/KG | 12/02/92   |         | Phenanthrene           |  |  |  |  |  |
| PF-36A-0-0 | 92.26677                               | 108952   | < 330.     |             | UG/KG | 12/02/92   |         | Pheno l                |  |  |  |  |  |
| PF-36A-0-0 | 92.26677                               | 129000   | < 330.     |             | UG/KG | 12/02/92   |         | Pyrene                 |  |  |  |  |  |
| PF-36A-0-0 | 92.26677                               | 120821   | < 330.     |             | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |  |  |  |
| PF-36A-0-0 | 92.26677                               | 95954    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |  |  |  |
| PF-36A-0-0 | 92.26677                               | 88062    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.26677

none

Matrix Spike Results for Sample # 92.26677 Date Collected: 8/25/92 Date Received: 8/26/92 Date Extracted: 8/31/92 Date Analyzed: 9/24/92 CUSTOMER SAMPLE AMOUNT AMOUNT COMPLETION COMPOUND NUMBER NUMBER ANALYSIS SPIKED RECOVERED UNITS DATE COMMENT NAME PF-36A-0-0 92.26677 83329 2303.45 1500. UG/KG 12/09/92 Acenaphthene PF-36A-0-0 92.26677 59507 4606.89 2900. UG/KG 12/09/92 4-Chloro-3-methylphenol PF-36A-0-0 92.26677 95578 4605.89 1900. UG/KG 12/09/92 o-Chlorophenol PF-36A-0-0 92.26677 106467 2303.45 1000. UG/KG 12/09/92 p-Dichlorobenzene (1,4) PF-36A-0-0 2303.45 1700. 12/09/92 92.26677 121142 UG/KG 2,4-Dinitrotoluene PF-36A-0-0 92.26677 100027 4606.89 2700. UG/KG 12/09/92 4-Nitrophenol PF-36A-0-0 92.26677 621647 2303.45 UG/KG 12/09/92 1100. N-Nitrosodi-n-propylamine UG/KG PF-36A-0-0 92.26677 87865 4606.89 2500. 12/09/92 Pentachlorophenol PF-36A-0-0 92.26677 108952 4606.89 2000. UG/KG 12/09/92 Phenol PF-36A-0-0 92.26677 129000 2303.45 2700. UG/KG 12/09/92 Pyrene PF-36A-0-0 92.26677 120821 2303.45 1200. UG/KG 12/09/92 1,2,4-Trichlorobenzene

Matrix Spike Duplicate Results for Sample # 92.26677

Date Collected:

8/25/92 Date Received: 8/26/92

Date Extracted: 8/31/92 Date Analyzed: 9/24/92

| CUSTOMER   | SAMPLE   |          | AMOUNT  | AMOUNT    |       | COMPLETION |         | COMPOUND                  |
|------------|----------|----------|---------|-----------|-------|------------|---------|---------------------------|
| NUMBER     | NUMBER   | ANALYSIS | SPIKED  | RECOVERED | UNITS | DATE       | COMMENT | NAME                      |
| DE-264-0-0 | 02 26677 | 83320    | 2204 22 | 1600      |       | 12/00/02   |         | Acapaphthono              |
| PF-36A-0-0 | 92.20077 | 50507    | 4E00 CE | 2700      |       | 12/09/92   |         | A-Chiene, 2. methylebenel |
| PF-30A-0-0 | 92.200// | 59507    | 4000.00 | 2700.     | 00/10 | 12/09/92   |         | 4-Chioro-3-methylphenol   |
| PF-36A-0-0 | 92.26677 | 95578    | 4588.65 | 2400.     | UG/KG | 12/09/92   |         | o-Chlorophenol            |
| PF-36A-0-0 | 92.26677 | 106467   | 2294.33 | 1300.     | UG/KG | 12/09/92   |         | p-Dichlorobenzene (1,4)   |
| PF-36A-0-0 | 92.26677 | 121142   | 2294.33 | 1600.     | UG/KG | 12/09/92   |         | 2,4-Dinitrotoluene        |
| PF-36A-0-0 | 92.26677 | 100027   | 4588.65 | 2700.     | UG/KG | 12/09/92   |         | 4-Nitrophenol             |
| PF-36A-0-0 | 92.26677 | 621647   | 2294.33 | 1300.     | UG/KG | 12/09/92   |         | N-Nitrosodi-n-propylamine |
| PF-36A-0-0 | 92.26677 | 87865    | 4588.65 | 2300.     | UG/KG | 12/09/92   |         | Pentachlorophenol         |
| PF-36A-0-0 | 92.26677 | 108952   | 4588.65 | 2400.     | UG/KG | 12/09/92   |         | Phenol                    |
| PF-36A-0-0 | 92.26677 | 129000   | 2294.33 | 2800.     | UG/KG | 12/09/92   |         | Pyrene                    |
| PF-36A-0-0 | 92.26677 | 120821   | 2294.33 | 1300.     | UG/KG | 12/09/92   |         | 1,2,4-Trichlorobenzene    |

Page: 6



|                    |             |             | ****               | ****           | ** EM-  | 9 ANALYTICAL REPO | ORT ****     | *******                                        |  |
|--------------------|-------------|-------------|--------------------|----------------|---------|-------------------|--------------|------------------------------------------------|--|
|                    |             |             | EPA                | SEMIVOLATILES  | Pre     | pared by: LAK     | c            | on 9-Dec-1992                                  |  |
| REQUEST NUM        | BER: 13439  | MATRI       | X: SS ANALYS       | T: ANTHONY LO  | MBARDO  | PI                | ROGRAM CODE: | : M106 NOTEBOOK: R7336 PAGE: 117               |  |
| OWNER: Phi         | lip R. Fres | quez        | GROUP: EM-8        | MAIL-STOP:     | K490 P  | PHONE: 7-0815     | TECHNIQUI    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |  |
| <u>Customer Sa</u> | mple Result | s, Sample # | <u>92.26678</u> Da | ite Collected: | 8/25/92 | Date Received:    | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 9/28/92 |  |
| CUSTOMER           | SAMPL F     |             | ANALYTICAL         | ANALYTICAL     |         | COMPLETION        |              | COMPOUND                                       |  |
| NUMBER             | NUMBER      | ANALYSIS    | RESULT             | UNCERTAINTY    | UNITS   | DATE              | COMMENT      | NAME                                           |  |
| DE-264-8-10        | 0 02 26678  | 83320       | < 330              |                | UG/KG   | 12/02/92          |              | Acenaphthene                                   |  |
| PF-36A-S-10        | 0 92.20070  | 208968      | < 330.             |                | UG/KG   | 12/02/92          |              | Acenaphthylene                                 |  |
| PF-364-5-10        | 0 92 26678  | 62533       | < 330.             |                | UG/KG   | 12/02/92          |              | Aniline                                        |  |
| PE-364-5-10        | 0 92.26678  | 120127      | < 330.             |                | UG/KG   | 12/02/92          |              | Anthracene                                     |  |
| PE-364-5-10        | 0 92.26678  | 103333      | < 330.             |                | UG/KG   | 12/02/92          |              | Azobenzene                                     |  |
| PF-364-5-10        | 0 92.26678  | 92875       | < 330.             |                | UG/KG   | 12/02/92          |              | m-Benzidine                                    |  |
| PE-36A-S-10        | 0 92.26678  | 56553       | < 330.             |                | UG/KG   | 12/02/92          |              | Benzo[a]anthracene                             |  |
| PF-36A-S-10        | 0 92,26678  | 50328       | < 330.             |                | UG/KG   | 12/02/92          |              | Benzo[a]pyrene                                 |  |
| PF-36A-S-10        | 0 92.26678  | 205992      | < 330.             |                | UG/KG   | 12/02/92          |              | Benzo[b]fluoranthene                           |  |
| PF-36A-S-10        | 0 92.26678  | 191242      | < 330.             |                | UG/KG   | 12/02/92          |              | Benzo[g,h,i]perylene                           |  |
| PE-36A-S-10        | 0 92.26678  | 207089      | < 330.             |                | UG/KG   | 12/02/92          |              | Benzo[k]fluoranthene                           |  |
| PF-36A-S-10        | 0 92.26678  | 65850       | < 330.             |                | UG/KG   | 12/02/92          |              | Benzoic acid                                   |  |
| PF-36A-S-10        | 0 92.26678  | 100516      | < 330.             |                | UG/KG   | 12/02/92          |              | Benzyi alcohol                                 |  |
| PF-36A-S-10        | 0 92.26678  | 111911      | < 330.             |                | UG/KG   | 12/02/92          |              | Bis(2-chloroethoxy)methane                     |  |
| PF-36A-S-10        | 0 92.26678  | 111444      | < 330.             |                | UG/KG   | 12/02/92          |              | Bis(2-chloroethyl)ether                        |  |
| PF-36A-S-10        | 0 92.26678  | 108601      | < 330.             |                | UG/KG   | 12/02/92          |              | Bis(2-chloroisopropyl)ether                    |  |
| PF-36A-S-10        | 0 92.26678  | 117817      | < 330.             |                | UG/KG   | 12/02/92          |              | Bis(2-ethylhexyl)phthalate                     |  |
| PF-36A-S-10        | 0 92.26678  | 101553      | < 330.             |                | UG/KG   | 12/02/92          |              | 4-Bromophenylphenyl ether                      |  |
| PF-36A-S-10        | 0 92.26678  | 85687       | < 330.             |                | UG/KG   | 12/02/92          |              | Butyl benzyl phthalate                         |  |
| PE-36A-S-10        | 0 92.26678  | 59507       | < 330.             |                | UG/KG   | 12/02/92          |              | 4-Chloro-3-methylphenol                        |  |
| PE-36A-S-10        | 0 92.26678  | 106478      | < 330.             |                | UG/KG   | 12/02/92          |              | 4-Chloroaniline                                |  |
| PF-36A-S-10        | 0 92.26678  | 91587       | < 330.             |                | UG/KG   | 12/02/92          |              | 2-Chloronaphthalene                            |  |
| PE-36A-S-10        | 0 92,26678  | 95578       | < 330.             |                | UG/KG   | 12/02/92          |              | o-Chlorophenol                                 |  |
| PF-36A-S-10        | 0 92.26678  | 7005723     | < 330.             |                | UG/KG   | 12/02/92          |              | 4-Chlorophenylphenyl ether                     |  |
| PE-36A-S-10        | 0 92.26678  | 218019      | < 330.             |                | UG/KG   | 12/02/92          |              | Chrysene                                       |  |
| PF-36A-S-10        | 0 92.26678  | 84742       | < 330.             |                | UG/KG   | 12/02/92          |              | Di-n-butyl phthalate                           |  |

PF-36A-S-100 92.26678

92.26678

PF-36A-

62759

86306

< 330.

< 330.

CUSTOMER SAMPLE ANALYTICAL ANALYTICAL COMPLETION COMPOUND NUMBER NUMBER ANALYSIS RESULT UNCERTAINTY UNITS DATE COMMENT NAME PF-36A-S-100 92.26678 117840 < 330. UG/KG 12/02/92 Di-n-octyl phthalate PF-36A-S-100 92.26678 53703 UG/KG < 330. 12/02/92 Dibenzo[a,h]anthracene PF-36A-S-100 92.26678 132649 < 330. UG/KG 12/02/92 Dibenzofuran PF-36A-S-100 92.26678 95501 < 330. UG/KG 12/02/92 o-Dichlorobenzene (1,2) PF-36A-S-100 92.26678 541731 < 330. UG/KG 12/02/92 m-Dichlorobenzene (1,3) PF-36A-S-100 92.26678 106467 < 330. UG/KG 12/02/92 p-Dichlorobenzene (1,4) PF-36A-S-100 92.26678 91941 < 330. UG/KG 12/02/92 3,3'-Dichlorobenzidine PF-36A-S-100 92.26678 120832 < 330. UG/KG 12/02/92 2,4-Dichlorophenol PF-36A-S-100 92.26678 84662 < 330. UG/KG 12/02/92 Diethyl phthalate PF-36A-S-100 92.26678 131113 < 330. UG/KG 12/02/92 Dimethyl phthalate PF-36A-S-100 92.26678 105679 < 330. UG/KG 12/02/92 2,4-Dimethylphenol PF-36A-S-100 92.26678 < 330. UG/KG 51285 12/02/92 2,4-Dinitrophenol PF-36A-S-100 92.26678 121142 < 330. UG/KG 12/02/92 2,4-Dinitrotoluene PF-36A-S-100 92.26678 606202 < 330. UG/KG 12/02/92 2.6-Dinitrotoluene PF-36A-S-100 92.26678 206440 < 330. UG/KG 12/02/92 Fluoranthene PF-36A-S-100 92.26678 86737 < 330. UG/KG 12/02/92 Fluorene PF-36A-S-100 92.26678 118741 < 330. UG/KG 12/02/92 **Hexachlorobenzene** Hexachlorobutadiene PF-36A-S-100 92.26678 87683 < 330. UG/KG 12/02/92 PF-36A-S-100 92.26678 77474 < 330. UG/KG 12/02/92 Hexachlorocyclopentadiene PF-36A-S-100 92.26678 67721 < 330. UG/KG 12/02/92 Hexachloroethane 193395 < 330. UG/KG 12/02/92 PF-36A-S-100 92.26678 Indeno[1.2.3-cd]pyrene PF-36A-S-100 92.26678 78591 < 330. UG/KG 12/02/92 Isophorone PF-36A-S-100 92.26678 534521 < 330. UG/KG 12/02/92 2-Methyl-4,6-dinitrophenol UG/KG 12/02/92 PF-36A-S-100 92.26678 91576 < 330. 2-Methvlnaphthalene PF-36A-S-100 92.26678 95487 < 330. UG/KG 12/02/92 2-Methylphenol < 330. UG/KG 12/02/92 PF-36A-S-100 92.26678 106445 4-Methylphenol PF-36A-S-100 92.26678 91203 < 330. UG/KG 12/02/92 Naphthalene < 330. UG/KG 12/02/92 PF-36A-S-100 92.26678 88744 2-Nitroaniline PF-36A-S-100 92.26678 < 330. UG/KG 12/02/92 **3-Nitroaniline** 99092 PF-36A-S-100 92.26678 100016 < 330. UG/KG 12/02/92 4-Nitroaniline 98953 < 330. UG/KG 12/02/92 PF-36A-S-100 92.26678 Nitrobenzene PF-36A-S-100 92.26678 88755 < 330. UG/KG 12/02/92 2-Nitrophenol 12/02/92 < 330. UG/KG PF-36A-S-100 92.26678 100027 4-Nitrophenol < 330. UG/KG 12/02/92 PF-36A-S-100 92.26678 621647 N-Nitrosodi-n-propylamine

UG/KG

UG/KG

12/02/92

02/92

EM-9 ANALYTICAL REPORT

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N-Nitrosodimethylamine

N-Nitrosodiphenylamine

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and and

|              |          |          | ********************* EM-9 ANALYTICAL REPORT ************************************ |             |       |            |         |                        |  |  |
|--------------|----------|----------|-----------------------------------------------------------------------------------|-------------|-------|------------|---------|------------------------|--|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL                                                                        | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT                                                                            | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |
| PF-36A-S-100 | 92.26678 | 87865    | < 330.                                                                            |             | UG/KG | 12/02/92   |         | Pentach loropheno l    |  |  |
| PF-36A-S-100 | 92.26678 | 85018    | < 330.                                                                            |             | UG/KG | 12/02/92   |         | Phenanthrene           |  |  |
| PF-36A-S-100 | 92.26678 | 108952   | < 330.                                                                            |             | UG/KG | 12/02/92   |         | Phenol                 |  |  |
| PF-36A-S-100 | 92.26678 | 129000   | < 330.                                                                            |             | UG/KG | 12/02/92   |         | Pyrene                 |  |  |
| PF-36A-S-100 | 92.26678 | 120821   | < 330.                                                                            |             | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |
| PF-36A-S-100 | 92.26678 | 95954    | < 330.                                                                            |             | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |
| PF-36A-S-100 | 92.26678 | 88062    | < 330.                                                                            |             | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |

der e

Tentatively Identified Compounds in Customer Sample # 92.26678

none

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|                     |            |               | ***               | *****           | ** EM-1    | 9 ANALYTICAL REPO | )RT ****     | *****                                                                                                            |
|---------------------|------------|---------------|-------------------|-----------------|------------|-------------------|--------------|------------------------------------------------------------------------------------------------------------------|
|                     |            |               | EP/               | A SEMIVOLATILES | Pre        | pared by: LAK     | O            | on 9-Dec-1992                                                                                                    |
| REQUEST NUMBE       | ER: 13439  | MATRIX:       | SS ANALY          | ST: ANTHONY LO  | MBARDO     | PI                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                                                                                   |
| OWNER: Phili        | ip R. Fres | quez G        | GROUP: EM-8       | MAIL-STOP:      | K490 P     | HONE: 7-0815      | TECHNIQUE    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD                                                                     |
| <u>Customer Sam</u> | ple_Result | s, Sample # 9 | <u>92.26679</u> D | ate Collected:  | 8/25/92    | Date Received:    | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 9/28/92                                                                   |
| CUSTOMER            | SAMPLE     |               | ANALYTICAL        | ANALYTICAL      |            | COMPLETION        |              | COMPOUND                                                                                                         |
| NUMBER              | NUMBER     | ANALYSIS      | RESULT            | UNCERTAINTY     | UNITS      | DATE              | COMMENT      | NAME                                                                                                             |
|                     |            |               |                   |                 |            | 12/02/02          |              | Acenanhthene                                                                                                     |
| PF-36A-S-50'        | 92.26679   | 83329         | < 330.            |                 | UG/KG      | 12/02/92          |              | Acenaphthene                                                                                                     |
| PF-36A-S-50'        | 92.266/9   | 208968        | < 330.            |                 |            | 12/02/92          |              | Aniline                                                                                                          |
| PF-36A-S-50'        | 92.266/9   | 62533         | < 330.            |                 |            | 12/02/92          |              | Anthracene                                                                                                       |
| PF-36A-S-50'        | 92.266/9   | 120127        | < 330.            |                 |            | 12/02/92          |              | Azobenzene                                                                                                       |
| PF-36A-S-50'        | 92.266/9   | 103333        | < 330.            |                 |            | 12/02/92          |              | m-Benzidine                                                                                                      |
| PF-36A-S-50'        | 92.266/9   | 92875         | < 330.            |                 |            | 12/02/92          |              | Benzolalanthracene                                                                                               |
| PF-36A-5-50         | 92.200/9   | 50333         | < 330.            |                 | UG/KG      | 12/02/92          |              | Benzo[a]pyrene                                                                                                   |
| PF-36A-5-50         | 92.200/9   | 20520         | < 330             |                 | UG/KG      | 12/02/92          |              | Benzo[b]fluoranthene                                                                                             |
| PF-36A-5-50         | 92.200/9   | 101242        | < 330             |                 | UG/KG      | 12/02/92          |              | Benzo[g,h,i]perylene                                                                                             |
| PF-36A-5-50         | 92.20079   | 207089        | < 330             |                 | UG/KG      | 12/02/92          |              | Benzo[k]fluoranthene                                                                                             |
| PF-30A-3-50/        | 02 26670   | 65850         | < 330.            |                 | UG/KG      | 12/02/92          |              | Benzoic acid                                                                                                     |
| PE-364-S-50'        | 02 26679   | 100516        | < 330.            |                 | ,<br>UG/KG | 12/02/92          |              | Benzyl alcohol                                                                                                   |
| PE-364-5-50'        | 92 26679   | 111911        | < 330.            |                 | UG/KG      | 12/02/92          |              | Bis(2-chloroethoxy)methane                                                                                       |
| PF-364-9-50         | 92,26679   | 111444        | < 330.            |                 | UG/KG      | 12/02/92          |              | Bis(2-chloroethyl)ether                                                                                          |
| PF-364-9-50         | 92,26679   | 108601        | < 330.            |                 | UG/KG      | 12/02/92          |              | Bis(2-chloroisopropyl)ether                                                                                      |
| PF-364-9-50         | 92,26679   | 117817        | < 330.            |                 | UG/KG      | 12/02/92          |              | Bis(2-ethylhexyl)phthalate                                                                                       |
| PF-36A-S-50         | 92,26679   | 101553        | < 330.            |                 | UG/KG      | 12/02/92          |              | 4-Bromophenylphenyl ether                                                                                        |
| PF-36A-5-50         | 92.26679   | 85687         | < 330.            |                 | UG/KG      | 12/02/92          |              | Butyl benzyl phthalate                                                                                           |
| PF-36A-S-50         | 92.26679   | 59507         | < 330.            |                 | UG/KG      | 12/02/92          |              | 4-Chloro-3-methylphenol                                                                                          |
| PF-364-9-50         | 92,26679   | 106478        | < 330.            |                 | UG/KG      | 12/02/92          |              | 4-Chloroaniline                                                                                                  |
| PF-364-5-50         | 92.26679   | 91587         | < 330.            |                 | UG/KG      | 12/02/92          |              | 2-Chloronaphthalene                                                                                              |
| PE-364-5-50         | 92.26679   | 95578         | < 330.            |                 | UG/KG      | 12/02/92          |              | o-Chlorophenol                                                                                                   |
| PE-364-5-50         | 92.26679   | 7005723       | < 330.            |                 | UG/KG      | 12/02/92          |              | 4-Chlorophenylphenyl ether                                                                                       |
| DE-364-0-60         | 92.26679   | 218019        | < 330.            |                 | UG/KG      | 12/02/92          |              | Chrysene                                                                                                         |
| DE-364-4            | 92 26679   | 84742         | 2100.             | 630.            | UG/KG      | 2/92              |              | Di-n-butyl phthalate                                                                                             |
|                     | /          | 0.7.12        |                   |                 | •          | A. A.             |              | and the second |

|              |          |          | ************************************** |             |            |            |         |                                                                       |  |  |  |  |  |  |
|--------------|----------|----------|----------------------------------------|-------------|------------|------------|---------|-----------------------------------------------------------------------|--|--|--|--|--|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL                             | ANALYTICAL  |            | COMPLETION |         | COMPOUND                                                              |  |  |  |  |  |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT                                 | UNCERTAINTY | UNITS      | DATE       | COMMENT | NAME                                                                  |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 117840   | < 330.                                 |             | UG/KG      | 12/02/92   |         | Di-n-octul phthalata                                                  |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 53703    | < 330.                                 |             | UG/KG      | 12/02/92   |         |                                                                       |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 132649   | < 330.                                 |             | UG/KG      | 12/02/92   |         | Dibenzoluran                                                          |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 95501    | < 330.                                 |             | UG/KG      | 12/02/92   |         | o-Dichlanahanzona (1.2)                                               |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 541731   | < 330.                                 |             | UG/KG      | 12/02/92   |         | m-Dichlorobenzone (1,2)                                               |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 106467   | < 330.                                 |             | UG/KG      | 12/02/92   |         | $\mathbf{p} = \mathbf{Dich} \left( \mathbf{p} \in \mathbf{p} \right)$ |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 91941    | < 330.                                 |             | UG/KG      | 12/02/92   |         | 3 3'-Dichlorobenziding                                                |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 120832   | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2. 4-Dichlorophenol                                                   |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 84662    | < 330.                                 |             | UG/KG      | 12/02/92   |         |                                                                       |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 131113   | < 330.                                 |             | UG/KG      | 12/02/92   |         | Dimethyl obthalate                                                    |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 105679   | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2 4-Dimethylahenol                                                    |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 51285    | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2,4 Dimetry (phenol                                                   |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 121142   | 4500.                                  | 1350.       | UG/KG      | 12/02/92   |         | 2 4-Dinitrotoluene                                                    |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 606202   | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2 6-Dinitrotoluene                                                    |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 206440   | < 330.                                 |             | UG/KG      | 12/02/92   |         | Fluoranthene                                                          |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 86737    | < 330.                                 |             | UG/KG      | 12/02/92   |         | Fluorene                                                              |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 118741   | < 330.                                 |             | UG/KG      | 12/02/92   |         | Heyachlorobenzene                                                     |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 87683    | < 330.                                 |             | UG/KG      | 12/02/92   |         | Hexachlorobutadiene                                                   |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 77474    | < 330.                                 |             | UG/KG      | 12/02/92   |         | Hexachlorocyclopentadiene                                             |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 67721    | < 330.                                 |             | UG/KG      | 12/02/92   |         | Hexachloroethane                                                      |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 193395   | < 330.                                 |             | ,<br>UG/KG | 12/02/92   |         | Indeno[1 2 3-cd]nyrene                                                |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 78591    | < 330.                                 |             | ÚG/KG      | 12/02/92   |         | Isophorone                                                            |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 534521   | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2-Methyl-4.6-dinitrophenol                                            |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 91576    | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2-Methylnaphthalene                                                   |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 95487    | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2-Methylphenol                                                        |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 106445   | < 330.                                 |             | UG/KG      | 12/02/92   |         | 4-Methylphenol                                                        |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 91203    | < 330.                                 |             | UG/KG      | 12/02/92   |         | Naphthalene                                                           |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 88744    | < 330.                                 |             | UG/KG      | 12/02/92   |         | 2-Nitroaniline                                                        |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 99092    | < 330.                                 |             | ,<br>UG/KG | 12/02/92   |         | 3-Nitroaniline                                                        |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 100016   | < 330.                                 |             | UG/KG      | 12/02/92   |         | 4-Nitroaniline                                                        |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 98953    | < 330.                                 |             | ,<br>UG/KG | 12/02/92   |         | Nitrobenzene                                                          |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 88755    | < 330.                                 |             | ,<br>UG/KG | 12/02/92   |         | 2-Nitrophenol                                                         |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 100027   | < 330.                                 |             | UG/KG      | 12/02/92   |         | 4-Nitrophenol                                                         |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 621647   | < 330.                                 |             | UG/KG      | 12/02/92   |         | N-Nitrosodi-n-propylamine                                             |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 62759    | < 330.                                 |             | UG/KG      | 12/02/92   |         | N-Nitrosodimethylamine                                                |  |  |  |  |  |  |
| PF-36A-S-50' | 92.26679 | 86306    | 700.                                   | 210.        | UG/KG      | 12/02/92   |         | N-Nitrosodiphenylamine                                                |  |  |  |  |  |  |

|              |          |          | ***                  | ******                    | *** EN     | 1-9 ANALYTICAL RE | PORT ** | *******                |  |
|--------------|----------|----------|----------------------|---------------------------|------------|-------------------|---------|------------------------|--|
|              | SAMPLE   | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS      | COMPLETION        | COMMENT | COMPOUND<br>NAME       |  |
| NORDER       | Honbert  |          |                      |                           |            |                   |         |                        |  |
| PF-36A-S-50' | 92.26679 | 87865    | < 330.               |                           | UG/KG      | 12/02/92          |         | Pentachlorophenol      |  |
| PF-36A-S-50' | 92.26679 | 85018    | < 330.               |                           | UG/KG      | 12/02/92          |         | Phenanthrene           |  |
| PE-36A-S-50' | 92.26679 | 108952   | < 330.               |                           | UG/KG      | 12/02/92          |         | Phenol                 |  |
| PE-364-5-50' | 92.26679 | 129000   | < 330.               |                           | UG/KG      | 12/02/92          |         | Pyrene                 |  |
| PE-364-5-50' | 92 26679 | 120821   | < 330.               |                           | UG/KG      | 12/02/92          |         | 1,2,4-Trichlorobenzene |  |
| DE-26A-S-50/ | 02 26670 | 95954    | < 330.               |                           | ,<br>UG/KG | 12/02/92          |         | 2,4,5-Trichlorophenol  |  |
| PF-36A-S-50  | 92.26679 | 88062    | < 330.               |                           | UG/KG      | 12/02/92          |         | 2,4,6-Trichlorophenol  |  |

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Tentatively Identified Compounds in Customer Sample # 92.26679

none

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|                                                                                                         |            |             | ***               | *****           | ** EM~  | 9 ANALYTICAL REP | ORT ****  | ******                                         |
|---------------------------------------------------------------------------------------------------------|------------|-------------|-------------------|-----------------|---------|------------------|-----------|------------------------------------------------|
|                                                                                                         |            |             | EP                | A SEMIVOLATILES | Pre     | pared by: LAK    | c         | on 9-Dec-1992                                  |
| REQUEST NUMBER: 13439 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117 |            |             |                   |                 |         |                  |           |                                                |
| OWNER: Phil                                                                                             | ip R. Fres | quez        | GROUP: EM-8       | MAIL-STOP:      | K490 P  | HONE: 7-0815     | TECHNIQUE | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |
| <u>Customer Sam</u>                                                                                     | ple Result | s, Sample # | <u>92.26680</u> D | ate Collected:  | 8/25/92 | Date Received:   | 8/26/92   | Date Extracted: 8/31/92 Date Analyzed: 9/28/92 |
| CUSTOMER                                                                                                | SAMPI F    |             | ANAI YTICAL       | ANALYTICAL      |         | COMPLETION       |           | COMPOUND                                       |
| NUMBER                                                                                                  | NUMBER     | ANALYSIS    | RESULT            | UNCERTAINTY     | UNITS   | DATE             | COMMENT   | NAME                                           |
| 05-364-5-35/                                                                                            | 02 26680   | 83320       | < 330             |                 | UG /KG  | 12/02/92         |           | Acenanhthene                                   |
| PF-36A-5-25                                                                                             | 92.20000   | 208968      | < 330.            |                 | UG/KG   | 12/02/92         |           | Acenaphthylene                                 |
| PF-364-5-25                                                                                             | 92.26680   | 62533       | < 330.            |                 | UG/KG   | 12/02/92         |           | Aniline                                        |
| PE-364-5-25                                                                                             | 92.26680   | 120127      | < 330.            |                 | UG/KG   | 12/02/92         |           | Anthracene                                     |
| PF-36A-S-25'                                                                                            | 92.26680   | 103333      | < 330.            |                 | UG/KG   | 12/02/92         |           | Azobenzene                                     |
| PF-36A-S-25'                                                                                            | 92.26680   | 92875       | < 330.            |                 | UG/KG   | 12/02/92         |           | m-Benzidine                                    |
| PF-36A-S-25'                                                                                            | 92.26680   | 56553       | < 330.            |                 | UG/KG   | 12/02/92         |           | Benzo[a]anthracene                             |
| PF-36A-S-25'                                                                                            | 92.26680   | 50328       | < 330.            |                 | UG/KG   | 12/02/92         |           | Benzo[a]pyrene                                 |
| PF-36A-S-25'                                                                                            | 92.26680   | 205992      | < 330.            |                 | UG/KG   | 12/02/92         |           | Benzo[b]fluoranthene                           |
| PF-36A-S-25'                                                                                            | 92.26680   | 191242      | < 330.            |                 | UG/KG   | 12/02/92         |           | Benzo[g,h,i]perylene                           |
| PF-36A-S-25 '                                                                                           | 92.26680   | 207089      | < 330.            |                 | UG/KG   | 12/02/92         |           | Benzo[k]fluoranthene                           |
| PF-36A-S-25'                                                                                            | 92.26680   | 65850       | < 330.            |                 | UG/KG   | 12/02/92         |           | Benzoic acid                                   |
| PF-36A-S-25'                                                                                            | 92.26680   | 100516      | < 330.            |                 | UG/KG   | 12/02/92         |           | Benzyl alcohol                                 |
| PF-36A-S-25'                                                                                            | 92.26680   | 111911      | < 330.            |                 | UG/KG   | 12/02/92         |           | Bis(2-chloroethoxy)methane                     |
| PF-36A-S-25 '                                                                                           | 92.26680   | 111444      | < 330.            |                 | UG/KG   | 12/02/92         |           | Bis(2-chloroethyl)ether                        |
| PF-36A-S-25'                                                                                            | 92.26680   | 108601      | < 330.            |                 | UG/KG   | 12/02/92         |           | Bis(2-chloroisopropyl)ether                    |
| PF-36A-S-25'                                                                                            | 92.26680   | 117817      | 7000.             | 2100.           | UG/KG   | 12/02/92         |           | Bis(2-ethylhexyl)phthalate                     |
| PF-36A-S-25'                                                                                            | 92.26680   | 101553      | < 330.            |                 | UG/KG   | 12/02/92         |           | 4-Bromophenylphenyl ether                      |
| PF-36A-S-25                                                                                             | 92.26680   | 85687       | < 330.            |                 | UG/KG   | 12/02/92         |           | Butyl benzyl phthalate                         |
| PF-36A-S-25                                                                                             | 92.26680   | 59507       | < 330.            |                 | UG/KG   | 12/02/92         |           | 4-Chioro-3-methylphenol                        |
| PF-36A-S-25                                                                                             | 92.26680   | 106478      | < 330.            |                 | UG/KG   | 12/02/92         |           | 4-Chloroaniline                                |
| PF-36A-S-25                                                                                             | 92.26680   | 91587       | < 330.            |                 | UG/KG   | 12/02/92         |           | 2-Chloronaphthalene                            |
| PF-36A-S-25                                                                                             | 92.26680   | 95578       | < 330.            |                 | UG/KG   | 12/02/92         |           | o-Chlorophenol                                 |
| PF-36A-S-25                                                                                             | 92.26680   | 7005723     | < 330.            |                 | UG/KG   | 12/02/92         |           | 4-Chlorophenylphenyl ether                     |
| PF-36A-S-25                                                                                             | 92.26680   | 218019      | < 330.            |                 | UG/KG   | 12/02/92         |           | Chrysene                                       |
| PF-36A-S-25                                                                                             | 92.26680   | 84742       | 820.              | 246.            | UG/KG   | 12/02/92         |           | Di-n-butyl phthalate                           |
|             |                  |          | ***        | *****       | *** EM-    | 9 ANALYTICAL R | EPORT *** | *****                      |
|-------------|------------------|----------|------------|-------------|------------|----------------|-----------|----------------------------|
| CUSTOMER    | SAMPLE           |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION     |           | COMPOUND                   |
| NUMBER      | NUMBER           | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE           | COMMENT   | NAME                       |
| PF-36A-S-25 | <b>92.2668</b> 0 | 117840   | < 330.     |             | UG/KG      | 12/02/92       |           | Di-n-octvl obthalate       |
| PF-36A-S-25 | 92.26680         | 53703    | < 330.     |             | UG/KG      | 12/02/92       |           | Dibenzo[a.h]anthracene     |
| PF-36A-S-25 | 92.26680         | 132649   | < 330.     |             | UG/KG      | 12/02/92       |           | Dibenzofuran               |
| PF-36A-S-25 | 92.26680         | 95501    | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | o-Dichlorobenzene (1.2)    |
| PF-36A-S-25 | 92.26680         | 541731   | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | m-Dichlorobenzene (1,3)    |
| PF-36A-S-25 | 92.26680         | 106467   | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | p-Dichlorobenzene (1.4)    |
| PF-36A-S-25 | 92.26680         | 91941    | < 330.     |             | UG/KG      | 12/02/92       |           | 3.3'-Dichlorobenzidine     |
| PF-36A-S-25 | 92.26680         | 120832   | < 330.     |             | UG/KG      | 12/02/92       |           | 2.4-Dichlorophenol         |
| PF-36A-S-25 | · 92.26680       | 84662    | < 330.     |             | UG/KG      | 12/02/92       |           | Diethyl phthalate          |
| PF-36A-S-25 | · 92.26680       | 131113   | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | Dimethyl phthalate         |
| PF-36A-S-25 | ' 92.26680       | 105679   | < 330.     |             | UG/KG      | 12/02/92       |           | 2.4-Dimethylphenol         |
| PF-36A-S-25 | 92.26680         | 51285    | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | 2.4-Dinitrophenol          |
| PF-36A-S-25 | 92.26680         | 121142   | 1300.      | 390.        | UG/KG      | 12/02/92       |           | 2,4-Dinitrotoluene         |
| PF-36A-S-25 | 92.26680         | 606202   | < 330.     |             | UG/KG      | 12/02/92       |           | 2,6-Dinitrotoluene         |
| PF-36A-S-25 | 92.26680         | 206440   | < 330.     |             | UG/KG      | 12/02/92       |           | Fluoranthene               |
| PF-36A-S-25 | 92.26680         | 86737    | < 330.     |             | UG/KG      | 12/02/92       |           | Fluorene                   |
| PF-36A-S-25 | 92.26680         | 118741   | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachlorobenzene          |
| PF-36A-S-25 | 92.26680         | 87683    | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachlorobutadiene        |
| PF-36A-S-25 | 92.26680         | 77474    | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachlorocyclopentadiene  |
| PF-36A-S-25 | 92.26680         | 67721    | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachloroethane           |
| PF-36A-S-25 | 92.26680         | 193395   | < 330.     |             | UG/KG      | 12/02/92       |           | Indeno[1,2,3-cd]pyrene     |
| PF-36A-S-25 | 92.26680         | 78591    | < 330.     |             | UG/KG      | 12/02/92       |           | Isophorone                 |
| PF-36A-S-25 | 92.26680         | 534521   | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Methyl-4,6-dinitrophenol |
| PF-36A-S-25 | 92.26680         | 91576    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Methylnaphthalene        |
| PF-36A-S-25 | 92.26680         | 95487    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Methylphenol             |
| PF-36A-S-25 | 92.26680         | 106445   | < 330.     |             | UG/KG      | 12/02/92       |           | 4-Methylphenol             |
| PF-36A-S-25 | 92.26680         | 91203    | < 330.     |             | UG/KG      | 12/02/92       |           | Naphthalene                |
| PF-36A-S-25 | 92.26680         | 88744    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Nitroaniline             |
| PF-36A-S-25 | ' 92.26680       | 99092    | < 330.     |             | UG/KG      | 12/02/92       |           | 3-Nitroaniline             |
| PF-36A-S-25 | 92.26680         | 100016   | < 330.     |             | UG/KG      | 12/02/92       |           | 4-Nitroaniline             |
| PF-36A-S-25 | 92.26680         | 98953    | < 330.     |             | UG/KG      | 12/02/92       |           | Nitrobenzene               |
| PF-36A-S-25 | 92.26680         | 88755    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Nitrophenol              |
| PF-36A-S-25 | ' 92.26680       | 100027   | < 330.     |             | UG/KG      | 12/02/92       |           | 4-Nitrophenol              |
| PF-36A-S-25 | 92.26680         | 621647   | < 330.     |             | UG/KG      | 12/02/92       |           | N-Nitrosodi-n-propylamine  |
| PF-36A-S-25 | 92.26680         | 62759    | < 330.     |             | UG/KG      | 12/02/92       |           | N-Nitrosodimethylamine     |
| PF-36A-     | 92.26680         | 86306    | < 330.     |             | UG/KG      | 2/92           |           | N-Nitrosodiphenvlamine     |



|              |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT *** | *****                  |          |
|--------------|----------|----------|------------|-------------|---------|----------------|-----------|------------------------|----------|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     | <u></u>   | Compound               | <u> </u> |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT   | NAME                   |          |
| PF-36A-S-25' | 92.26680 | 87865    | < 330.     |             | UG/KG   | 12/02/92       |           | Pentachlorophenol      |          |
| PF-36A-S-25' | 92.26680 | 85018    | < 330.     |             | UG/KG   | 12/02/92       |           | Phenanthrene           |          |
| PF-36A-S-25' | 92.26680 | 108952   | < 330.     |             | UG/KG   | 12/02/92       |           | Phenoi                 |          |
| PF-36A-S-25' | 92.26680 | 129000   | < 330.     |             | UG/KG   | 12/02/92       |           | Pyrene                 |          |
| PF-36A-S-25' | 92.26680 | 120821   | < 330.     |             | UG/KG   | 12/02/92       |           | 1,2,4-Trichlorobenzene |          |
| PF-36A-S-25' | 92.26680 | 95954    | < 330.     |             | UG/KG   | 12/02/92       |           | 2,4,5-Trichlorophenol  |          |
| PF-36A-S-25' | 92.26680 | 88062    | < 330.     |             | UG/KG   | 12/02/92       |           | 2,4,6-Trichlorophenol  |          |

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Tentatively Identified Compounds in Customer Sample # 92.26680

|               |                      |               | ***                | *****           | ** EM-9  | 9 ANALYTICAL REPO | )RT *****    | ****                                           |
|---------------|----------------------|---------------|--------------------|-----------------|----------|-------------------|--------------|------------------------------------------------|
|               |                      |               | EP                 | A SEMIVOLATILES | Pre      | pared by: LAK     | on           | 9-Dec-1992                                     |
| REQUEST NUMBE | ER: 13439            | MATRIX:       | SS ANALY           | ST: ANTHONY LO  | MBARDO   | PI                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                 |
| OWNER: Phili  | ip R. Fres           | quez G        | ROUP: EM-8         | MAIL-STOP:      | K490 P   | HONE: 7-0815      | TECHNIQUE:   | GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD      |
| Customer Samp | ole Result           | s, Sample # 9 | 9 <u>2.26681</u> D | ate Collected:  | 8/25/92  | Date Received:    | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 9/28/92 |
| CUSTOMER      | SAMPLE               |               | ANALYTICAL         | ANALYTICAL      |          | COMPLETION        |              | COMPOUND                                       |
| NUMBER        | NUMBER               | ANALYSIS      | RESULT             | UNCERTAINTY     | UNITS    | DATE              | COMMENT      | NAME                                           |
|               |                      |               |                    |                 | 110 (140 | 10/00/00          |              | Accessible                                     |
| PF-36A-S-10'  | 92.26681             | 83329         | < 330.             |                 | UG/KG    | 12/02/92          |              | Acenaphthylene                                 |
| PF-36A-S-10'  | 92.26681             | 208968        | < 330.             |                 |          | 12/02/92          |              | Aniline                                        |
| PF-36A-S-10'  | 92.26681             | 02033         | < 330.             |                 |          | 12/02/92          |              | Anthracene                                     |
| PF-36A-S-10'  | 92.20081             | 120127        | < 330.             |                 |          | 12/02/92          |              | Azahenzene                                     |
| PF-36A-S-10'  | 92.20081             | 103333        | < 330.             |                 |          | 12/02/92          |              | m-Benzidine                                    |
| PF-36A-S-10'  | 92.26681             | 928/5         | < 330.             |                 |          | 12/02/92          |              | Renzo[a]anthracene                             |
| PF-36A-S-10'  | 92.20081             | 50553         | < 330.             |                 |          | 12/02/92          |              | Benzo[a] ovrene                                |
| PF-36A-5-10   | 92.20001             | 205002        | < 330.             |                 |          | 12/02/92          |              | Benzo[b]fluoranthene                           |
| PF-36A-5-10   | 92.20001             | 203992        | < 330.             |                 |          | 12/02/92          |              | 8enzo[a,h.i]pervlene                           |
| PF-36A-5-10   | 92.20001             | 207080        | < 330              |                 | UG/KG    | 12/02/92          |              | Benzo[k]fluoranthene                           |
| PF-30A-5-10   | 92.20001             | 65850         | < 330              |                 | UG/KG    | 12/02/92          |              | Benzoic acid                                   |
| PF-36A-S-10   | 92.20001             | 100516        | < 330              |                 | UG/KG    | 12/02/92          |              | Benzyl alcohol                                 |
| PF-36A-S-10/  | 02 26691             | 111011        | < 330              |                 | UG/KG    | 12/02/92          |              | Bis(2-chloroethoxy)methane                     |
| PF-36A-S-10/  | 92.20001             | 111444        | < 330.             |                 | UG/KG    | 12/02/92          |              | Bis(2-chloroethyl)ether                        |
| PF-30A-3-10   | 02 26681             | 108601        | < 330.             |                 | UG/KG    | 12/02/92          |              | Bis(2-chloroisopropyl)ether                    |
| PF-36A-S-10/  | 02 26681             | 117817        | 2100               | 630.            | UG/KG    | 12/02/92          |              | Bis(2-ethylhexyl)phthalate                     |
| DE-368-6-101  | 92 26691             | 101553        | < 330.             |                 | UG/KG    | 12/02/92          |              | 4-Bromophenylphenyl ether                      |
| PF-36A-S-10   | 92 26681             | 85687         | < 330.             |                 | UG/KG    | 12/02/92          |              | Butyl benzyl phthalate                         |
| DE-364-5-10   | 92 26681             | 59507         | < 330.             |                 | UG/KG    | 12/02/92          |              | 4-Chloro-3-methylphenol                        |
| DE-364-0-10/  | 92 26691             | 106478        | < 330.             |                 | UG/KG    | 12/02/92          |              | 4-Chloroaniline                                |
| DE-364-S-10   | 92 26691             | 91587         | < 330              |                 | UG/KG    | 12/02/92          |              | 2-Chloronaphthalene                            |
| DE-364-9-10/  | 92 26681             | 95578         | < 330.             |                 | UG/KG    | 12/02/92          |              | o-Chlorophenol                                 |
| PF-30A-3-10   | 92 26691             | 7005723       | < 330              |                 | UG/KG    | 12/02/92          |              | 4-Chlorophenylphenyl ether                     |
| FF-36A-S-10   | 92.20001             | 218019        | < 330              |                 | UG/KG    | 12/02/92          |              | Chrysene                                       |
| PE-364- 3     | 92.20001<br>92.20001 | 84742         | 540                | 162.            | UG/KG    | 02/92             |              | Di-n-butyl phthalate                           |
| TT JUA        | 36,20001             | 01/76         | 0.01               |                 | /        | J.                |              |                                                |

| USTOMER      | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION |         | COMPOUND                   |
|--------------|----------|----------|------------|-------------|------------|------------|---------|----------------------------|
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE       | COMMENT | NAME                       |
| PF-36A-S-10' | 92.26681 | 117840   | < 330.     |             | UG/KG      | 12/02/92   |         | Di-n-octyl phthalate       |
| PF-36A-S-10' | 92.26681 | 53703    | < 330.     |             | UG/KG      | 12/02/92   |         | Dibenzo[a,h]anthracene     |
| F-36A-S-10'  | 92.26681 | 132649   | < 330.     |             | UG/KG      | 12/02/92   |         | Dibenzofuran               |
| F-36A-S-10'  | 92.26681 | 95501    | < 330.     |             | UG/KG      | 12/02/92   |         | o-Dichlorobenzene (1,2)    |
| F-36A-S-10'  | 92.26681 | 541731   | < 330.     |             | UG/KG      | 12/02/92   |         | m-Dichlorobenzene (1,3)    |
| F-36A-S-10'  | 92.26681 | 106467   | < 330.     |             | UG/KG      | 12/02/92   |         | p-Dichlorobenzene (1,4)    |
| F-36A-S-10'  | 92.26681 | 91941    | < 330.     |             | UG/KG      | 12/02/92   |         | 3,3'-Dichlorobenzidine     |
| F-36A-S-10'  | 92.26681 | 120832   | < 330.     |             | UG/KG      | 12/02/92   |         | 2,4-Dichlorophenol         |
| F-36A-S-10'  | 92.26681 | 84662    | < 330.     |             | UG/KG      | 12/02/92   |         | Diethyl phthalate          |
| PF-36A-S-10' | 92.26681 | 131113   | < 330.     |             | UG/KG      | 12/02/92   |         | Dimethyl phthalate         |
| PF-36A-S-10' | 92.26681 | 105679   | < 330.     |             | UG/KG      | 12/02/92   |         | 2,4-Dimethylphenol         |
| PF-36A-S-10' | 92.26681 | 51285    | < 330.     |             | UG/KG      | 12/02/92   |         | 2,4-Dinitrophenol          |
| PF-36A-S-10' | 92.26681 | 121142   | 680.       | 204.        | UG/KG      | 12/02/92   |         | 2,4-Dinitrotoluene         |
| PF-36A-S-10' | 92.26681 | 606202   | < 330.     |             | UG/KG      | 12/02/92   |         | 2,6-Dinitrotoluene         |
| PF-36A-S-10' | 92.26681 | 206440   | < 330.     |             | UG/KG      | 12/02/92   |         | Fluoranthene               |
| PF-36A-S-10' | 92.26681 | 86737    | < 330.     |             | UG/KG      | 12/02/92   |         | Fluorene                   |
| PF-36A-S-10' | 92.26681 | 118741   | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachlorobenzene          |
| PF-36A-S-10' | 92.26681 | 87683    | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachlorobutadiene        |
| PF-36A-S-10' | 92.26681 | 77474    | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachlorocyclopentadiene  |
| F-36A-S-10'  | 92.26681 | 67721    | < 330.     |             | UG/KG      | 12/02/92   |         | Hexachloroethane           |
| PF-36A-S-10' | 92.26681 | 193395   | < 330.     |             | UG/KG      | 12/02/92   |         | Indeno[1,2,3-cd]pyrene     |
| PF-36A-S-10' | 92.26681 | 78591    | < 330.     |             | UG/KG      | 12/02/92   |         | Isophorone                 |
| PF-36A-S-10' | 92.26681 | 534521   | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Methyl-4,6-dinitrophenol |
| PF-36A-S-10' | 92.26681 | 91576    | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Methylnaphthalene        |
| PF-36A-S-10' | 92.26681 | 95487    | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Methylphenol             |
| PF-36A-S-10' | 92.26681 | 106445   | < 330.     |             | UG/KG      | 12/02/92   |         | 4-Methylphenol             |
| PF-36A-S-10' | 92.26681 | 91203    | < 330.     |             | UG/KG      | 12/02/92   |         | Naphthalene                |
| PF-36A-S-10' | 92.26681 | 88744    | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Nitroaniline             |
| PF-36A-S-10' | 92.26681 | 99092    | < 330.     |             | UG/KG      | 12/02/92   |         | 3-Nitroaniline             |
| PF-36A-S-10  | 92.26681 | 100016   | < 330.     |             | UG/KG      | 12/02/92   |         | 4-Nitroaniline             |
| PF-36A-S-10  | 92.26681 | 98953    | < 330.     |             | UG/KG      | 12/02/92   |         | Nitrobenzene               |
| PF-36A-S-10  | 92,26681 | 88755    | < 330.     |             | UG/KG      | 12/02/92   |         | 2-Nitrophenol              |
| PF-36A-S-10  | 92.26681 | 100027   | < 330.     |             | ,<br>UG/KG | 12/02/92   |         | 4-Nitrophenol              |
| PF-36A-S-10  | 92,26681 | 621647   | < 330.     |             | UG/KG      | 12/02/92   |         | N-Nitrosodi-n-propylamine  |
| PF-36A-S-10  | 92,26681 | 62759    | < 330.     |             | UG/KG      | 12/02/92   |         | N-Nitrosodimethylamine     |
| 1 JUN 3 10   | 52.20001 | 02,33    | . 220      |             |            | 12/02/92   |         | N-Nitrocodiphenylamine     |

PF-36A-S-10' 92.26681

PF-36A-S-10' 92.26681

|                    |                  |          | ***                  | ******                    | *** EM- | 9 ANALYTICAL RE    | PORT *** | *****                  |  |
|--------------------|------------------|----------|----------------------|---------------------------|---------|--------------------|----------|------------------------|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS   | COMPLETION<br>DATE | COMMENT  | COMPOUND<br>NAME       |  |
| PF-36A-S-10'       | 92.26681         | 87865    | < 330.               |                           | UG/KG   | 12/02/92           |          | Pentachlorophenol      |  |
| PF-36A-S-10'       | 92.26681         | 85018    | < 330.               |                           | UG/KG   | 12/02/92           |          | Phenanthrene           |  |
| PF-36A-S-10'       | 92.26681         | 108952   | < 330.               |                           | UG/KG   | 12/02/92           |          | Phenol                 |  |
| PF-36A-S-10'       | 92.26681         | 129000   | < 330.               |                           | UG/KG   | 12/02/92           |          | Pyrene                 |  |
| PF-36A-S-10'       | 92.26681         | 120821   | < 330.               |                           | UG/KG   | 12/02/92           |          | 1,2,4-Trichlorobenzene |  |

12/02/92

12/02/92

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

UG/KG

UG/KG

Tentatively Identified Compounds in Customer Sample # 92.26681

< 330.

< 330.

95954

88062

entre and a second s

# Page: 19

|                     |            |               | ****               | *****         | ** EM-  | 9 ANALYTICAL REP | )RT ****     | ******                                         |
|---------------------|------------|---------------|--------------------|---------------|---------|------------------|--------------|------------------------------------------------|
|                     |            |               | EPA                | SEMIVOLATILES | Pre     | pared by: LAK    | o            | on 9-Dec-1992                                  |
| REQUEST NUMB        | ER: 13439  | MATRI         | (: SS ANALYS       | T: ANTHONY LO | MBARDO  | P                | ROGRAM CODE: | : M106 NOTEBOOK: R7336 PAGE: 117               |
| OWNER: Phil         | ip R. Fres | quez          | GROUP: EM-8        | MAIL-STOP:    | K490 P  | HONE: 7-0815     | TECHNIQUE    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |
| <u>Customer Sam</u> | ple Result | ts, Sample #  | <u>92.26682</u> Da | te Collected: | 8/25/92 | Date Received:   | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 9/28/92 |
| OUCTOMED            |            |               | ANALYTICAL         | ΔΝΔΙ ΥΤΤΓΔΙ   |         | COMPLETION       |              | COMPOUND                                       |
|                     | NUMBED     | 212Y LANA     | RESULT             | UNCERTAINTY   | UNITS   | DATE             | COMMENT      | NAME                                           |
| NOMPER              | NONDER     | /44421010     |                    |               |         |                  |              |                                                |
| PF-36A-S-5'         | 92.26682   | 83329         | < 330.             |               | UG/KG   | 12/02/92         |              | Acenaphthene                                   |
| PF-36A-S-5'         | 92.26682   | 208968        | < 330.             |               | UG/KG   | 12/02/92         |              | Acenaphthylene                                 |
| PF-36A-S-5'         | 92.26682   | 62533         | < 330.             |               | UG/KG   | 12/02/92         |              | Aniline                                        |
| PF-36A-S-5'         | 92.26682   | 120127        | < 330.             |               | UG/KG   | 12/02/92         |              | Anthracene                                     |
| PF-36A-S-5'         | 92.26682   | 103333        | < 330.             |               | UG/KG   | 12/02/92         |              | Azobenzene                                     |
| PF-36A-S-5'         | 92.26682   | 92875         | < 330.             |               | UG/KG   | 12/02/92         |              | m-Benzidine                                    |
| PF-36A-S-5'         | 92.26682   | 56553         | < 330.             |               | UG/KG   | 12/02/92         |              | Benzo[a]anthracene                             |
| PF-36A-S-5'         | 92.26682   | 5032 <b>8</b> | < 330.             |               | UG/KG   | 12/02/92         |              | Benzo[a]pyrene                                 |
| PF-36A-S-5'         | 92.26682   | 205992        | < 330.             |               | UG/KG   | 12/02/92         |              | Benzo[b] fluoranthene                          |
| PF-36A-S-5'         | 92.26682   | 191242        | < 330.             |               | UG/KG   | 12/02/92         |              | Benzolg,h,i]perylene                           |
| PF-36A-S-5'         | 92.26682   | 207089        | < 330.             |               | UG/KG   | 12/02/92         |              | Benzo[k]fluoranthene                           |
| PF-36A-S-5'         | 92.26682   | 65850         | < 330.             |               | UG/KG   | 12/02/92         |              | Benzoic acid                                   |
| PF-36A-S-5'         | 92.26682   | 100516        | < 330.             |               | UG/KG   | 12/02/92         |              | Benzyl alcohol                                 |
| PF-36A-S-5'         | 92.26682   | 111911        | < 330.             |               | UG/KG   | 12/02/92         |              | Bis (2-chloroethoxy) methalle                  |
| PF-36A-S-5'         | 92.26682   | 111444        | < 330.             |               | UG/KG   | 12/02/92         |              | Bis (2 - chioroechy) ether                     |
| PF-36A-S-5'         | 92.26682   | 108601        | < 330.             |               | UG/KG   | 12/02/92         |              | Bis(2-chioroisopropyi)ethei                    |
| PF-36A-S-5'         | 92.26682   | 117817        | 14300.             | 4290.         | UG/KG   | 12/02/92         |              | Bis(2-ethylnexyl)phinalate                     |
| PF-36A-S-5'         | 92.26682   | 101553        | < 330.             |               | UG/KG   | 12/02/92         |              | 4-Bromopheny (pheny ( ether                    |
| PF-36A-S-5'         | 92.26682   | 85687         | < 330.             |               | UG/KG   | 12/02/92         |              | Butyl Benzyl philatale                         |
| PF-36A-S-5'         | 92.26682   | 59507         | < 330.             |               | UG/KG   | 12/02/92         |              | 4-Chlonopiline                                 |
| PF-36A-S-5'         | 92.26682   | 106478        | < 330.             |               | UG/KG   | 12/02/92         |              | 4-UNIOPOdAlline                                |
| PF-36A-S-5'         | 92.26682   | 91587         | < 330.             |               | UG/KG   | 12/02/92         |              |                                                |
| PF-36A-S-5'         | 92.26682   | 95578         | < 330.             |               | UG/KG   | 12/02/92         |              | o-uniorophenoi<br>A-Chlananhanvi ether         |
| PF-36A-S-5'         | 92.26682   | 7005723       | < 330.             |               | UG/KG   | 12/02/92         |              | 4-Uniorophenyiphenyi ether                     |
| PF-36A-S-5'         | 92.26682   | 218019        | < 330.             |               | UG/KG   | 12/02/92         |              | Unrysene                                       |
| PF-36A-S-5'         | 92.26682   | 84742         | 420.               | 126.          | UG/KG   | 12/02/92         |              | υι-η-ράτγι ρητησιστε                           |

|             |          |          | ***        | ****        | *** EM-    | 9 ANALYTICAL R | EPORT *** | *******                             |
|-------------|----------|----------|------------|-------------|------------|----------------|-----------|-------------------------------------|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION     |           | COMPOUND                            |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE           | COMMENT   | NAME                                |
| PF-36A-S-5' | 92.26682 | 117840   | < 330.     |             | UG/KG      | 12/02/92       |           | Di-n-octyl obthalate                |
| PF-36A-S-5' | 92.26682 | 53703    | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | Dibenzo[a, h]anthracene             |
| PF-36A-S-5' | 92.26682 | 132649   | < 330.     |             | UG/KG      | 12/02/92       |           | Dibenzofuran                        |
| PF-36A-S-5' | 92.26682 | 95501    | < 330.     |             | UG/KG      | 12/02/92       |           | $\alpha$ -Dichlorobenzene (1 2)     |
| PF-36A-S-5' | 92.26682 | 541731   | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | m-Dichlorobenzene (1,3)             |
| PF-36A-S-5' | 92.26682 | 106467   | < 330.     |             | UG/KG      | 12/02/92       |           | $\mathbf{p}$ -Dichlorobenzene (1,4) |
| PF-36A-S-5' | 92.26682 | 91941    | < 330.     |             | UG/KG      | 12/02/92       |           | 3.3'-Dichlorobenzidine              |
| PF-36A-S-5' | 92.26682 | 120832   | < 330.     |             | UG/KG      | 12/02/92       |           | 2 4-Dichlarophenol                  |
| PF-36A-S-5' | 92.26682 | 84662    | < 330.     |             | UG/KG      | 12/02/92       |           | Diethyl phthalate                   |
| PF-36A-S-5' | 92.26682 | 131113   | < 330.     |             | UG/KG      | 12/02/92       |           | Dimethyl phthalate                  |
| PF-36A-S-5' | 92.26682 | 105679   | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | 2.4-Dimethylphenol                  |
| PF-36A-S-5' | 92.26682 | 51285    | < 330.     |             | ,<br>UG/KG | 12/02/92       |           | 2.4-Dinitrophenol                   |
| PF-36A-S-5' | 92.26682 | 121142   | 360.       | 108.        | UG/KG      | 12/02/92       |           | 2.4-Dinitrotoluene                  |
| PF-36A-S-5' | 92.26682 | 606202   | < 330.     |             | UG/KG      | 12/02/92       |           | 2,6-Dinitrotoluene                  |
| PF-36A-S-5' | 92.26682 | 206440   | < 330.     |             | UG/KG      | 12/02/92       |           | Fluoranthene                        |
| PF-36A-S-5' | 92.26682 | 86737    | < 330.     |             | UG/KG      | 12/02/92       |           | Fluorene                            |
| PF-36A-S-5' | 92.26682 | 118741   | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachlorobenzene                   |
| PF-36A-S-5' | 92.26682 | 87683    | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachlorobutadiene                 |
| PF-36A-S-5' | 92.26682 | 77474    | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachlorocyclopentadiene           |
| PF-36A-S-5' | 92.26682 | 67721    | < 330.     |             | UG/KG      | 12/02/92       |           | Hexachloroethane                    |
| PF-36A-S-5' | 92.26682 | 193395   | < 330.     |             | UG/KG      | 12/02/92       |           | Indeno[1,2,3-cd]pyrene              |
| PF-36A-S-5' | 92.26682 | 78591    | < 330.     |             | UG/KG      | 12/02/92       |           | Isophorone                          |
| PF-36A-S-5' | 92.26682 | 534521   | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Methyl-4,6-dinitrophenol          |
| PF-36A-S-5' | 92.26682 | 91576    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Methylnaphthalene                 |
| PF-36A-S-5' | 92.26682 | 95487    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Methylphenol                      |
| PF-36A-S-5' | 92.26682 | 106445   | < 330.     |             | UG/KG      | 12/02/92       |           | 4-Methylphenol                      |
| PF-36A-S-5' | 92.26682 | 91203    | < 330.     |             | UG/KG      | 12/02/92       |           | Naphthalene                         |
| PF-36A-S-5' | 92.26682 | 88744    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Nitroaniline                      |
| PF-36A-S-5' | 92.26682 | 99092    | < 330.     |             | UG/KG      | 12/02/92       |           | 3-Nitroaniline                      |
| PF-36A-S-5' | 92.26682 | 100016   | < 330.     |             | UG/KG      | 12/02/92       |           | 4-Nitroaniline                      |
| PF-36A-S-5' | 92.26682 | 98953    | < 330.     |             | UG/KG      | 12/02/92       |           | Nitrobenzene                        |
| PF-36A-S-5' | 92.26682 | 88755    | < 330.     |             | UG/KG      | 12/02/92       |           | 2-Nitrophenol                       |
| PF-36A-S-5' | 92.26682 | 100027   | < 330.     |             | UG/KG      | 12/02/92       |           | 4-Nitrophenol                       |
| PF-36A-S-5' | 92.26682 | 621647   | < 330.     |             | UG/KG      | 12/02/92       |           | N-Nitrosodi-n-propylamine           |
| PF-36A-S-5' | 92.26682 | 62759    | < 330.     |             | UG/KG      | 12/02/92       |           | N-Nitrosodimethylamine              |
| PF-36A-     | 92.26682 | 86306    | < 330.     |             | UG/KG      | 02/92          |           | N-Nitrosodiphenylamine              |
|             |          |          |            |             |            |                |           |                                     |

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|             |          | ******************************* EM-9 ANALYTICAL REPORT ************************************ |            |             |       |            |         |                        |  |  |  |  |  |
|-------------|----------|---------------------------------------------------------------------------------------------|------------|-------------|-------|------------|---------|------------------------|--|--|--|--|--|
| CUSTOMER    | SAMPLE   |                                                                                             | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | Compound               |  |  |  |  |  |
| NUMBER      | NUMBER   | ANALYSIS                                                                                    | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |  |  |  |
| PF-36A-S-5' | 92.26682 | 87865                                                                                       | < 330.     |             | UG/KG | 12/02/92   |         | Pentachlorophenol      |  |  |  |  |  |
| PF-36A-S-5' | 92.26682 | 85018                                                                                       | < 330.     |             | UG/KG | 12/02/92   |         | Phenanthrene           |  |  |  |  |  |
| PF-36A-S-5' | 92.26682 | 108952                                                                                      | < 330.     |             | UG/KG | 12/02/92   |         | Phenol                 |  |  |  |  |  |
| PF-36A-S-5' | 92.26682 | 129000                                                                                      | < 330.     |             | UG/KG | 12/02/92   |         | Pyrene                 |  |  |  |  |  |
| PF-36A-S-5' | 92.26682 | 120821                                                                                      | < 330.     |             | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |  |  |  |
| PF-36A-S-5' | 92.26682 | 95954                                                                                       | < 330.     |             | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |  |  |  |
| PF-36A-S-5' | 92.26682 | 88062                                                                                       | < 330.     |             | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.26682

none

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|                    |              |               | ***                           | *****           | ** EM-  | 9 ANALYTICAL REPO                      | DRT ****     | *****                                          |
|--------------------|--------------|---------------|-------------------------------|-----------------|---------|----------------------------------------|--------------|------------------------------------------------|
| <u></u>            |              |               | EP                            | A SEMIVOLATILES | Pre     | pared by: LAK                          | 01           | n 9-Dec-1992                                   |
| REQUEST NUN        | MBER: 13439  | MATRIX:       | SS ANALY                      | ST: ANTHONY LO  | MBARDO  | PI                                     | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                 |
| OWNER: Phi         | ilip R. Fres | quez G        | ROUP: EM-8                    | MAIL-STOP:      | K490 P  | HONE: 7-0815                           | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |
| <u>Customer Sa</u> | ample Result | s, Sample # 9 | 0 <u>2.26683</u> D            | ate Collected:  | 8/25/92 | Date Received:                         | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 9/28/92 |
| CUSTOMER           | SAMPLE       |               | ANALYTICAL                    | ANALYTICAL      |         | COMPLETION                             |              | COMPOUND                                       |
| NUMBER             | NUMBER       | ANALYSIS      | RESULT                        | UNCERTAINTY     | UNITS   | DATE                                   | COMMENT      | NAME                                           |
|                    |              |               |                               |                 |         |                                        |              |                                                |
| PF-36A-W-10        | 00 92.26683  | 83329         | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Acenaphthene                                   |
| PF-36A-W-10        | 00 92.26683  | 208968        | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Acenaphtnylene                                 |
| PF-36A-W-10        | 00 92.26683  | 62533         | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Antine                                         |
| PF-36A-W-1         | 00 92.26683  | 120127        | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Anthracene                                     |
| PF-36A-W-1         | 00 92.26683  | 103333        | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Azobenzene                                     |
| PF-36A-W-1         | 00 92.26683  | 92875         | < 330.                        |                 | UG/KG   | 12/02/92                               |              |                                                |
| PF-36A-W-1         | 00 92.26683  | 56553         | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Benzo[a] antin accie                           |
| PF-36A-W-1         | 00 92.26683  | 50328         | < 330.                        |                 |         | 12/02/92                               |              | Benzo[b] fluoranthene                          |
| PF-36A-W-1         | 00 92.26683  | 205992        | < 330.                        |                 |         | 12/02/92                               |              | Benzola h ilmervlene                           |
| PF-36A-W-1         | 00 92.26683  | 191242        | < 330.                        |                 |         | 12/02/92                               |              | Benzo[k]fluoranthene                           |
| PF-36A-W-1         | 00 92.26683  | 207089        | < 330.                        |                 |         | 12/02/92                               |              | Benzoic acid                                   |
| PF-36A-W-1         | 00 92.26683  | 65850         | < 330.                        |                 |         | 12/02/92                               |              | Benzyl alcohol                                 |
| PF-36A-W-1         | 00 92.26683  | 100516        | < 330.                        |                 |         | 12/02/92                               |              | Bis (2-ch loroethoxy) methane                  |
| 77-36A-W-1         | UU 92.26683  | 111444        | <ul> <li>&gt; 330.</li> </ul> |                 |         | 12/02/92                               |              | Bis(2-chloroethyl)ether                        |
| 77-30A-W-1         | 00 02.20083  | 109601        | ~ 330.                        |                 |         | 12/02/92                               |              | Bis(2-chloroisopropyl)ether                    |
| PF-36A-W-1         | 00 92.20083  | 117017        | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Bis(2-ethylhexyl)phthalate                     |
| rr-30A-W-1         | 00 92.20003  | 11/01/        | < 330                         |                 | UG/KG   | 12/02/92                               |              | 4-Bromophenylphenyl ether                      |
| PF-36A-W-1         | 00 02 26693  | 85687         | < 330.                        |                 | UG/KG   | 12/02/92                               |              | Butyl benzyl phthalate                         |
| PT-30A-W-1         | 00 02 26603  | 50507         | < 330.                        |                 | UG/KG   | 12/02/92                               |              | 4-Chloro-3-methylphenol                        |
| rr-30A-W-1         | 00 02 25503  | 106479        | < 330.                        |                 | UG /KG  | 12/02/92                               |              | 4-Chloroaniline                                |
| PT-30A-W-1         | 00 02 26603  | 01597         | < 220                         |                 |         | 12/02/92                               |              | 2-Chloronaphthalene                            |
| PF-30A-W-1         | 00 02 26603  | 91307         | < 330                         |                 | UG/KG   | 12/02/92                               |              | o-Chlorophenol                                 |
| PT-30A*W-1         | 00 92.20003  | 33370         | < 330.                        |                 |         | 12/02/92                               |              | 4-Chlorophenylphenyl ether                     |
| PF-30A-W-1         | 100 92.20083 | 219010        | < 330.                        |                 |         | 12/02/92                               |              | Chrysene                                       |
| PT-JOA-W-1         | DO 92.20083  | 210019        | < 330.<br>e 330               |                 | UG/KG   | 32/92                                  |              | Di-n-butyl phthalate                           |
| rt-30A             | 9 92.20083   | 04/42         | × 330,                        |                 | 04/10   | ···· · · · · · · · · · · · · · · · · · |              |                                                |

PF-36A-W-100 92.26683

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\*\*\*\*\* EM-9 ANALYTICAL REPORT \*\*\*\*\*\*\*\*\*\*\*\*\*\* CUSTOMER SAMPLE ANALYTICAL ANALYTICAL COMPLETION COMPOUND RESULT UNCERTAINTY UNITS DATE COMMENT NUMBER NUMBER ANALYSIS NAME PF-36A-W-100 92.26683 117840 < 330. UG/KG 12/02/92 Di-n-octyl phthalate PF-36A-W-100 92.26683 53703 < 330. UG/KG 12/02/92 Dibenzo[a,h]anthracene PF-36A-W-100 92,26683 132649 < 330. UG/KG 12/02/92 Dibenzofuran o-Dichlorobenzene (1,2) PF-36A-W-100 92,26683 95501 < 330. UG/KG 12/02/92 PF-36A-W-100 92,26683 541731 < 330. UG/KG 12/02/92 m-Dichlorobenzene (1,3) 106467 < 330. UG/KG 12/02/92 PF-36A-W-100 92.26683 p-Dichlorobenzene (1,4) PF-36A-W-100 92,26683 91941 < 330. UG/KG 12/02/92 3.3'-Dichlorobenzidine PF-36A-W-100 92.26683 120832 < 330. UG/KG 12/02/92 2,4-Dichlorophenol PF-36A-W-100 92.26683 84662 < 330. UG/KG 12/02/92 Diethyl phthalate PF-36A-W-100 92.26683 131113 < 330. UG/KG 12/02/92 Dimethyl phthalate UG/KG 12/02/92 PF-36A-W-100 92.26683 105679 < 330. 2,4-Dimethylphenol UG/KG 12/02/92 PF-36A-W-100 92.26683 51285 < 330. 2,4-Dinitrophenol PF-36A-W-100 92.26683 121142 < 330. UG/KG 12/02/92 2,4-Dinitrotoluene < 330. UG/KG 12/02/92 2.6-Dinitrotoluene PF-36A-W-100 92.26683 606202 PF-36A-W-100 92.26683 206440 < 330. UG/KG 12/02/92 Fluoranthene 86737 < 330. UG/KG 12/02/92 Fluorene PF-36A-W-100 92.26683 UG/KG 12/02/92 Hexachlorobenzene < 330. PF-36A-W-100 92.26683 118741 UG/KG 12/02/92 Hexachlorobutadiene PF-36A-W-100 92.26683 87683 < 330. PF-36A-W-100 92.26683 77474 < 330. UG/KG 12/02/92 Hexachlorocyclopentadiene UG/KG 12/02/92 Hexachloroethane PF-36A-W-100 92.26683 67721 < 330. < 330. UG/KG 12/02/92 Indeno[1,2,3-cd]pyrene PF-36A-W-100 92.26683 193395 UG/KG 12/02/92 < 330. Isophorone PF-36A-W-100 92.26683 78591 12/02/92 2-Methyl-4,6-dinitrophenol 534521 < 330. UG/KG PF-36A-W-100 92.26683 PF-36A-W-100 92.26683 91576 < 330. UG/KG 12/02/92 2-Methyinaphthalene 95487 < 330. UG/KG 12/02/92 2-Methylphenol PF-36A-W-100 92.26683 106445 < 330. UG/KG 12/02/92 4-Methylphenol PF-36A-W-100 92.26683 UG/KG 12/02/92 Naphthalene < 330. PF-36A-W-100 92.26683 91203 UG/KG 12/02/92 2-Nitroaniline < 330. PF-36A-W-100 92,26683 88744 UG/KG 12/02/92 3-Nitroaniline PF-36A-W-100 92.26683 99092 < 330. 100016 < 330. UG/KG 12/02/92 4-Nitroaniline PF-36A-W-100 92.26683 UG/KG 12/02/92 PF-36A-W-100 92.26683 98953 < 330. Nitrobenzene UG/KG 12/02/92 2-Nitrophenol 88755 < 330. PF-36A-W-100 92.26683 UG/KG 12/02/92 PF-36A-W-100 92.26683 100027 < 330. 4-Nitrophenol 12/02/92 PF-36A-W-100 92.26683 621647 < 330. UG/KG N-Nitrosodi-n-propylamine < 330. UG/KG 12/02/92 N-Nitrosodimethylamine PE-36A-W-100 92,26683 62759

UG/KG

12/02/92

N-Nitrosodiphenylamine

< 330.

86306

Page: 23

|              |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R    | EPORT ** | ****                   |  |
|--------------|----------|----------|------------|-------------|---------|-------------------|----------|------------------------|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION        |          | Compound               |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE              | COMMENT  | NAME                   |  |
| PF-36A-W-100 | 92.26683 | 87865    | < 330.     |             | UG/KG   | 12/02/92          |          | Pentachlorophenol      |  |
| PF-36A-W-100 | 92.26683 | 85018    | < 330.     |             | UG/KG   | 12/02/92          |          | Phenanthrene           |  |
| PF-36A-W-100 | 92.26683 | 108952   | < 330.     |             | UG/KG   | 12/02/92          |          | Pheno l                |  |
| PF-36A-W-100 | 92.26683 | 129000   | < 330.     |             | UG/KG   | 12/02/92          |          | Pyrene                 |  |
| PF-36A-W-100 | 92.26683 | 120821   | < 330.     |             | UG/KG   | 12/02/92          |          | 1,2,4-Trichlorobenzene |  |
| PF-36A-W-100 | 92.26683 | 95954    | < 330.     |             | UG/KG   | 12/02/ <b>9</b> 2 |          | 2,4,5-Trichlorophenol  |  |
| PF-36A-W-100 | 92.26683 | 88062    | < 330.     |             | UG/KG   | 12/02/92          |          | 2,4,6-Trichlorophenol  |  |

Tentatively Identified Compounds in Customer Sample # 92.26683

none

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|                     |            |             | **          | *****            | ** EM-  | 9 ANALYTICAL REPO | ORT ****     | *******                                        |
|---------------------|------------|-------------|-------------|------------------|---------|-------------------|--------------|------------------------------------------------|
|                     |            |             | E           | PA SEMIVOLATILES | i Pre   | pared by: LAK     | oi           | n 9-Dec-1992                                   |
| REQUEST NUMB        | ER: 13439  | MATRI)      | (: SS ANAL  | YST: ANTHONY LO  | MBARDO  | PI                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                 |
| OWNER: Phil         | ip R. Fres | quez        | GROUP: EM~8 | MAIL-STOP:       | K490 P  | HONE: 7-0815      | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |
| <u>Customer Sam</u> | ple Result | s, Sample # | 92.26684    | Date Collected:  | 8/25/92 | Date Received:    | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 9/28/92 |
| CUSTOMER            | SAMPI F    |             | ANALYTICAL  | ANALYTICAL       |         | COMPLETION        |              | COMPOUND                                       |
| NUMBER              | NUMBER     | ANALYSIS    | RESULT      | UNCERTAINTY      | UNITS   | DATE              | COMMENT      | NAME                                           |
|                     |            |             |             |                  |         |                   |              |                                                |
| PF-36A-W-50'        | 92.26684   | 83329       | < 330.      |                  | UG/KG   | 12/02/92          |              | Acenaphthene                                   |
| PF-36A-W-50'        | 92.26684   | 208968      | < 330.      |                  | UG/KG   | 12/02/92          |              | Acenaphthylene                                 |
| PF-36A-W-50'        | 92.26684   | 62533       | < 330.      |                  | UG/KG   | 12/02/92          |              | Aniline                                        |
| PF-36A-W-50'        | 92.26684   | 120127      | < 330.      |                  | UG/KG   | 12/02/92          |              | Anthracene                                     |
| PF-36A-W-50'        | 92.26684   | 103333      | < 330.      |                  | UG/KG   | 12/02/92          |              | Azobenzene                                     |
| PF-36A-W-50'        | 92.26684   | 92875       | < 330.      |                  | UG/KG   | 12/02/92          |              | m-Benzidine                                    |
| PF-36A-W-50'        | 92.26684   | 56553       | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzolajanthracene                             |
| PF-36A-W-50         | 92.26684   | 50328       | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzolajpyrene                                 |
| PF-36A-W-50         | 92.26684   | 205992      | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[b]fluoranthene                           |
| PF-36A-W-50         | 92.26684   | 191242      | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[g,h,i]perylene                           |
| PF-36A-W-50         | 92.26684   | 207089      | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzo[k]fluoranthene                           |
| PF-36A-W-50         | 92.26684   | 65850       | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzoic acid                                   |
| PF-36A-W-50         | 92.26684   | 100516      | < 330.      |                  | UG/KG   | 12/02/92          |              | Benzyl alcohol                                 |
| PF-36A-W-50         | 92.26684   | 111911      | < 330.      |                  | UG/KG   | 12/02/92          |              | Bis(2-chloroethoxy)methane                     |
| PF-36A-W-50         | 92.26684   | 111444      | < 330.      |                  | UG/KG   | 12/02/92          |              | Bis(2-chloroethyl)ether                        |
| PF-36A-W-50         | 92.26684   | 108601      | < 330.      |                  | UG/KG   | 12/02/92          |              | Bis(2-chloroisopropyl)ether                    |
| PF-36A-W-50         | 92.26684   | 117817      | < 330.      |                  | UG/KG   | 12/02/92          |              | Bis(2-ethylhexyl)phthalate                     |
| PF-36A-W-50         | 92.26684   | 101553      | < 330.      |                  | UG/KG   | 12/02/92          |              | 4-Bromophenylphenyl ether                      |
| PF-36A-W-50         | 92.26684   | 85687       | < 330.      |                  | UG/KG   | 12/02/92          |              | Butyl benzyl phthalate                         |
| PF-36A-W-50         | 92.26684   | 59507       | < 330.      |                  | UG/KG   | 12/02/92          |              | 4-Chloro-3-methylphenol                        |
| PF-36A-W-50         | 92.26684   | 106478      | < 330.      |                  | UG/KG   | 12/02/92          |              | 4-Chloroaniline                                |
| PF-36A-W-50         | 92.26684   | 91587       | < 330.      |                  | UG/KG   | 12/02/92          |              | 2-Chloronaphthalene                            |
| PF-36A-W-50         | 92.26684   | 95578       | < 330.      |                  | UG/KG   | 12/02/92          |              | o-Chlorophenol                                 |
| PF-36A-W-50         | 92.26684   | 7005723     | < 330.      |                  | UG/KG   | 12/02/92          |              | 4-Chlorophenylphenyl ether                     |
| PF-36A-W-50         | 92.26684   | 218019      | < 330.      |                  | UG/KG   | 12/02/92          |              | Chrysene                                       |
| PF-36A-W-50         | 92.26684   | 84742       | < 330.      |                  | UG/KG   | 12/02/92          |              | Di-n-butyl phthalate                           |

PF-36A-

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92.26684

86306

< 330.

EM-9 ANALYTICAL REPORT CUSTOMER SAMPLE ANALYTICAL ANALYTICAL COMPLETION COMPOUND NUMBER NUMBER ANALYSIS RESULT UNITS UNCERTAINTY DATE COMMENT NAME PF-36A-W-50' 92,26684 117840 < 330. UG/KG 12/02/92 Di-n-octyl phthalate PF-36A-W-50' 92.26684 53703 < 330. UG/KG 12/02/92 Dibenzo[a,h]anthracene PF-36A-W-50' 92,26684 132649 < 330. UG/KG 12/02/92 Dibenzofuran PF-36A-W-50' 92.26684 95501 < 330. UG/KG 12/02/92 o-Dichlorobenzene (1,2) PF-36A-W-50' 92.26684 541731 < 330. UG/KG 12/02/92 m-Dichlorobenzene (1,3) PF-36A-W-50' 92.26684 106467 < 330. UG/KG 12/02/92 p-Dichlorobenzene (1.4) PF-36A-W-50' 92.26684 91941 < 330. UG/KG 12/02/92 3,3'-Dichlorobenzidine PF-36A-W-50' 92,26684 120832 < 330. UG/KG 12/02/92 2,4-Dichlorophenol PF-36A-W-50' 92.26684 84662 < 330. UG/KG 12/02/92 Diethyl phthalate PF-36A-W-50' 92.26684 131113 < 330. UG/KG 12/02/92 Dimethyl phthalate PF-36A-W-50' 92.26684 105679 < 330. UG/KG 12/02/92 2,4-Dimethylphenol PF-36A-W-50' 92.26684 < 330. UG/KG 12/02/92 51285 2,4-Dinitrophenol PF-36A-W-50' 92.26684 121142 < 330. UG/KG 12/02/92 2,4-Dinitrotoluene PF-36A-W-50' 92.26684 606202 < 330. UG/KG 12/02/92 2,6-Dinitrotoluene PF-36A-W-50' 92.26684 206440 < 330. UG/KG 12/02/92 Fluoranthene PF-36A-W-50' 92.26684 86737 < 330. UG/KG 12/02/92 Fluorene PF-36A-W-50' 92.26684 118741 < 330. UG/KG 12/02/92 Hexachlorobenzene < 330. UG/KG PF-36A-W-50' 92.26684 87683 12/02/92 Hexachlorobutadiene PF-36A-W-50' 92.26684 77474 < 330. UG/KG 12/02/92 **Hexachlorocyclopentadiene** 67721 < 330. UG/KG 12/02/92 PF-36A-W-50' 92.26684 Hexachloroethane PF-36A-W-50' 92.26684 193395 < 330. UG/KG 12/02/92 Indeno[1,2,3-cd]pyrene < 330. UG/KG 12/02/92 PF-36A-W-50' 92.26684 78591 Isophorone UG/KG PF-36A-W-50' 92.26684 534521 < 330. 12/02/92 2-Methyl-4,6-dinitrophenol PF-36A-W-50' 92.26684 91576 < 330. UG/KG 12/02/92 2-Methylnaphthalene PF-36A-W-50' 92.26684 95487 < 330. UG/KG 12/02/92 2-Methylphenol PF-36A-W-50' 92.26684 106445 < 330. UG/KG 12/02/92 4-Methylphenol 91203 < 330. UG/KG 12/02/92 PF-36A-W-50' 92.26684 Naphthalene 88744 < 330. UG/KG 12/02/92 PF-36A-W-50' 92.26684 2-Nitroaniline 12/02/92 PF-36A-W-50' 92.26684 99092 < 330. UG/KG 3-Nitroaniline PF-36A-W-50' 92.26684 100016 < 330. UG/KG 12/02/92 **4-Nitroaniline** 12/02/92 PF-36A-W-50' 92.26684 98953 < 330. UG/KG Nitrobenzene UG/KG 12/02/92 PF-36A-W-50' 92.26684 88755 < 330. 2-Nitrophenol UG/KG 12/02/92 PF-36A-W-50' 92.26684 100027 < 330. **4-Nitrophenol** PF-36A-W-50' 92.26684 621647 < 330. UG/KG 12/02/92 N-Nitrosodi-n-propylamine 62759 < 330. UG/KG 12/02/92 N-Nitrosodimethylamine PF-36A-W-50' 92.26684

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92/92

UG/KG

N-Nitrosodiphenylamine

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|                    | ************************************** |          |                      |                           |       |                    |         |                        |  |  |  |  |  |
|--------------------|----------------------------------------|----------|----------------------|---------------------------|-------|--------------------|---------|------------------------|--|--|--|--|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER                       | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |  |  |  |  |  |
|                    | 02 26684                               | 87865    | < 330.               |                           | UG/KG | 12/02/92           |         | Pentachlorophenol      |  |  |  |  |  |
| PF-36A-W-50'       | 92.20004                               | 85018    | < 330.               |                           | UG/KG | 12/02/92           |         | Phenanthrene           |  |  |  |  |  |
| PF-36A-W-50'       | 92.26684                               | 108952   | < 330.               |                           | UG/KG | 12/02/92           |         | Phenol                 |  |  |  |  |  |
| PF-36A-W-50'       | 92.26684                               | 129000   | < 330.               |                           | UG/KG | 12/02/92           |         | Pyrene                 |  |  |  |  |  |
| PE-36A-W-50'       | 92.26684                               | 120821   | < 330.               |                           | UG/KG | 12/02/92           |         | 1,2,4-Trichlorobenzene |  |  |  |  |  |
| PE-36A-W-50'       | 92.26684                               | 95954    | < 330.               |                           | UG/KG | 12/02/92           |         | 2,4,5-Trichlorophenol  |  |  |  |  |  |
| PF-36A-W-50'       | 92.26684                               | 88062    | < 330.               |                           | UG/KG | 12/02/92           |         | 2,4,6-Trichlorophenol  |  |  |  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.26684

|                    |                  |              | **                   | *****                     | ** EM-  | 9 ANALYTICAL REP   | ORT *****    | *****                                 |            |
|--------------------|------------------|--------------|----------------------|---------------------------|---------|--------------------|--------------|---------------------------------------|------------|
|                    |                  |              | E                    | PA SEMIVOLATILES          | i Pre   | pared by: LAK      | оп           | 9-Dec-1992                            |            |
| REQUEST            | NUMBER: 1343     | 9 MATRI      | IX: SS ANAL          | YST: ANTHONY LO           | MBARDO  | P                  | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 1          | .17        |
| OWNER: I           | Philip R. Fre    | squez        | GROUP: EM-8          | MAIL-STOP:                | K490 P  | PHONE: 7-0815      | TECHNIQUE:   | GCEC ANALYTICAL PROCEDURE: EPA SW     | I-846 3RD  |
| <u>Customer</u>    | Sample Resul     | ts, Sample d | 92.26685             | Date Collected:           | 8/25/92 | Date Received:     | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed | i: 9/28/92 |
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS     | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS   | COMPLETION<br>DATE | COMMENT      | Compound<br>Name                      |            |
| PF-36A-W           | -25′92.26685     | 83329        | < 330.               |                           | UG/KG   | 12/02/92           |              | Acenaphthene                          |            |
| PF-36A-W           | -25' 92.26685    | 208968       | < 330.               |                           | UG/KG   | 12/02/92           |              | Acenaphthylene                        |            |
| PF-36A-W           | -25' 92.26685    | 62533        | < 330.               |                           | UG/KG   | 12/02/92           |              | Aniline                               |            |
| PF-36A-W           | -25' 92.26685    | 120127       | < 330.               |                           | UG/KG   | 12/02/92           |              | Anthracene                            |            |
| PF-36A-W           | -25' 92.26685    | 103333       | < 330.               |                           | UG/KG   | 12/02/92           |              | Azobenzene                            |            |
| PF-36A-W           | -25' 92.26685    | 92875        | < 330.               |                           | UG/KG   | 12/02/92           |              | m-Benzidine                           |            |
| PF-36A-W           | -25′ 92.26685    | 56553        | < 330.               |                           | UG/KG   | 12/02/92           |              | Benzo[a]anthracene                    |            |
| PF-36A-W           | -25' 92.26685    | 50328        | < 330.               |                           | UG/KG   | 12/02/92           |              | Benzo[a]pyrene                        |            |
| PF-36A-W           | -25' 92.26685    | 205992       | < 330.               |                           | UG/KG   | 12/02/92           |              | Benzo[b]fluoranthene                  |            |
| PF-36A-W           | -25′ 92.26685    | 191242       | < 330.               |                           | UG/KG   | 12/02/92           |              | Benzo[g,h,i]perylene                  |            |
| PF-36A-W           | -25' 92.26685    | 207089       | < 330.               |                           | UG/KG   | 12/02/92           |              | Benzo[k]fluoranthene                  |            |
| PF-36A-W           | -25' 92.26685    | 65850        | < 330.               |                           | UG/KG   | 12/02/92           |              | Benzoic acid                          |            |
| PF-36A-W           | -25' 92.26685    | 100516       | < 330.               |                           | UG/KG   | 12/02/92           |              | Benzyl alcohol                        |            |
| PF-36A-W           | -25' 92.26685    | 111911       | < 330.               |                           | UG/KG   | 12/02/92           |              | Bis(2-chloroethoxy)methane            |            |
| PF-36A-W           | -25' 92.26685    | 111444       | < 330.               |                           | UG/KG   | 12/02/92           |              | Bis(2-chloroethyl)ether               |            |
| PF-36A-W           | -25' 92.26685    | 108601       | < 330.               |                           | UG/KG   | 12/02/92           |              | Bis(2-chloroisopropyl)ether           |            |
| PF-36A-W           | -25′ 92.26685    | 117817       | < 330.               |                           | UG/KG   | 12/02/92           |              | Bis(2-ethylhexyl)phthalate            |            |
| PF-36A-₩           | -25′ 92.26685    | 101553       | < 330.               |                           | UG/KG   | 12/02/92           |              | 4-Bromophenylphenyl ether             |            |
| PF-36A-W           | -25′ 92.26685    | 85687        | < 330.               |                           | UG/KG   | 12/02/92           |              | Butyl benzyl phthalate                |            |
| PF-36A-W           | -25' 92.26685    | 59507        | < 330.               |                           | UG/KG   | 12/02/92           |              | 4-Chloro-3-methylphenol               |            |
| PF-36A-W-          | -25′ 92.26685    | 106478       | < 330.               |                           | UG/KG   | 12/02/92           |              | 4-Chloroaniline                       |            |
| PF-36A-W           | -25′ 92.26685    | 91587        | < 330.               |                           | UG/KG   | 12/02/92           |              | 2-Chloronaphthalene                   |            |
| PF-36A-W           | -25′ 92.26685    | 95578        | < 330.               |                           | UG/KG   | 12/02/92           |              | o-Chlorophenol                        |            |
| PF-36A-W           | -25' 92.26685    | 7005723      | < 330.               |                           | UG/KG   | 12/02/92           |              | 4-Chlorophenylphenyl ether            |            |
| PF-36A-W           | -25' 92.26685    | 218019       | < 330.               |                           | UG/KG   | 12/02/92           |              | Chrysene                              |            |
| PF-36A             | 92.26685         | 84742        | < 330.               |                           | UG/KG   | 02/92              |              | Di-n-butyl phthalate                  |            |
|                    |                  |              |                      |                           |         |                    |              |                                       |            |

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| CUSTOMER    | SAMPLE      |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |
|-------------|-------------|----------|------------|-------------|-------|------------|---------|----------------------------|
| NUMBER      | NUMBER      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |
| DE-364-W-25 | 92 26685    | 117840   | < 330.     |             | UG/KG | 12/02/92   |         | Di-n-octyl phthalate       |
| PF-36A-W-25 | 92 26685    | 53703    | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzo[a,h]anthracene     |
| PF-364-W-25 | 92.26685    | 132649   | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzofuran               |
| PF-364-W-25 | 92.26685    | 95501    | < 330.     |             | UG/KG | 12/02/92   |         | o-Dichlorobenzene (1,2)    |
| PE-364-W-25 | 92.26685    | 541731   | < 330.     |             | UG/KG | 12/02/92   |         | m-Dichlorobenzene (1,3)    |
| PF-364-W-25 | 92.26685    | 106467   | < 330.     |             | UG/KG | 12/02/92   |         | p-Dichlorobenzene (1,4)    |
| PF-364-W-25 | 92.26685    | 91941    | < 330.     |             | UG/KG | 12/02/92   |         | 3,3'-Dichlorobenzidine     |
| PE-36A-W-25 | 92.26685    | 120832   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dichlorophenoł         |
| PE-36A-W-25 | 92.26685    | 84662    | < 330.     |             | UG/KG | 12/02/92   |         | Diethyl phthalate          |
| PE-36A-W-25 | 92.26685    | 131113   | < 330.     |             | UG/KG | 12/02/92   |         | Dimethyl phthalate         |
| PE-36A-W-25 | 92.26685    | 105679   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4~Dimethylphenol         |
| PE-36A-W-25 | 92.26685    | 51285    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrophenol          |
| PE-36A-W-25 | 92.26685    | 121142   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrotoluene         |
| PF-36A-W-25 | 92.26685    | 606202   | < 330.     |             | UG/KG | 12/02/92   |         | 2,6-Dinitrotoluene         |
| PF-36A-W-25 | 92.26685    | 206440   | < 330.     |             | UG/KG | 12/02/92   |         | Fluoranthene               |
| PF-36A-W-25 | 92.26685    | 86737    | < 330.     |             | UG/KG | 12/02/92   |         | Fluorene                   |
| PF-36A-W-25 | 92.26685    | 118741   | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobenzene          |
| PF-36A-W-25 | 92.26685    | 87683    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobutadiene        |
| PF-36A-W-25 | 92.26685    | 77474    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorocyclopentadiene  |
| PF-36A-W-25 | 92.26685    | 67721    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachloroethane           |
| PF-36A-W-25 | 92.26685    | 193395   | < 330.     |             | UG/KG | 12/02/92   |         | Indeno[1,2,3-cd]pyrene     |
| PF-36A-W-25 | 92.26685    | 78591    | < 330.     |             | UG/KG | 12/02/92   |         | Isophorone                 |
| PF-36A-W-25 | 92.26685    | 534521   | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methyl-4,6-dinitrophenol |
| PF-36A-W-25 | 92.26685    | 91576    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylnaphthalene        |
| PF-36A-W-25 | 92.26685    | 95487    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylphenol             |
| PF-36A-W-25 | o' 92.26685 | 106445   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Methylphenol             |
| PF-36A-W-25 | o' 92.26685 | 91203    | < 330.     |             | UG/KG | 12/02/92   |         | Naphthalene                |
| PF-36A-W-25 | 5' 92.26685 | 88744    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitroaniline             |
| PF-36A-W-25 | 5' 92.26685 | 99092    | < 330.     |             | UG/KG | 12/02/92   |         | 3-Nitroaniline             |
| PF-36A-W-25 | 5' 92.26685 | 100016   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitroaniline             |
| PF-36A-W-25 | 5' 92.26685 | 98953    | < 330.     |             | UG/KG | 12/02/92   |         | Nitrobenzene               |
| PF-36A-W-25 | 5' 92.26685 | 88755    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitrophenol              |
| PF-36A-W-2  | 5' 92.26685 | 5 100027 | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitrophenol              |
| PF-36A-W-2  | 5' 92.26685 | 621647   | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodi-n-propylamine  |
| PF-36A-W-2  | 5' 92.2668  | 62759    | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodimethylamine     |
| PF-36A-W-2  | 5' 92.2668  | 5 86306  | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodiphenylamine     |

|                    |                  |          | ***                  | ******                    | ********** |                    |         |                        |
|--------------------|------------------|----------|----------------------|---------------------------|------------|--------------------|---------|------------------------|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS      | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |
| PF-36A-W-25'       | 92.26685         | 87865    | < 330.               |                           | UG/KG      | 12/02/92           |         | Pentachlorophenol      |
| PF-36A-W-25'       | 92.26685         | 85018    | < 330.               |                           | UG/KG      | 12/02/92           |         | Phenanthrene           |
| PF-36A-W-25'       | 92.26685         | 108952   | < 330.               |                           | UG/KG      | 12/02/92           |         | Phenol                 |
| PF-36A-W-25'       | 92.26685         | 129000   | < 330.               |                           | UG/KG      | 12/02/92           |         | Purene                 |
| PF-36A-W-25'       | 92.26685         | 120821   | < 330.               |                           | UG/KG      | 12/02/92           |         | 1 2 4-Trichlorobonzono |
| PF-36A-W-25'       | 92.26685         | 95954    | < 330.               |                           | UG/KG      | 12/02/92           |         | 2 A 5-Trichlorenhonel  |
| PF-36A-W-25'       | 92.26685         | 88062    | < 330.               |                           | UG/KG      | 12/02/92           |         | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.26685

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## REPORT NUMBER: 16239

|                     |            |             | ***          | *****            | ** EM-  | 9 ANALYTICAL REPO | )RT ****     | ****                                           |
|---------------------|------------|-------------|--------------|------------------|---------|-------------------|--------------|------------------------------------------------|
|                     |            |             | EP           | PA SEMIVOLATILES | s Pre   | pared by: LAK     | Q            | on 9-Dec-1992                                  |
| REQUEST NUMB        | ER: 13439  | MATRI       | IX: SS ANALY | 'ST: ANTHONY LO  | MBARDO  | PF                | ROGRAM CODE: | : M106 NOTEBOOK: R7336 PAGE: 117               |
| OWNER: Phil         | ip R. Fres | quez        | GROUP: EM-8  | MAIL-STOP:       | K490 F  | PHONE: 7-0815     | TECHNIQUE    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |
| <u>Customer Sam</u> | ple Result | s, Sample 4 | 92.26686     | ate Collected:   | 8/25/92 | Date Received:    | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 9/29/92 |
|                     | SAMPLE     |             | ANAL YTTCAL  | ANAL YTICAL      |         |                   |              | COMPOLIND                                      |
| NUMBER              | NUMBER     | ANALYSIS    | RESULT       | UNCERTAINTY      | UNITS   | DATE              | COMMENT      | NAME                                           |
|                     |            |             |              |                  |         |                   |              |                                                |
| PF-36A-W-10'        | 92.26686   | 83329       | < 330.       |                  | UG/KG   | 12/02/92          |              | Acenaphthene                                   |
| PF-36A-W-10'        | 92.26686   | 208968      | < 330.       |                  | UG/KG   | 12/02/92          |              | Acenaphthylene                                 |
| PF-36A-W-10'        | 92.26686   | 62533       | < 330.       |                  | UG/KG   | 12/02/92          |              | Aniline                                        |
| PF-36A-W-10'        | 92.26686   | 120127      | < 330.       |                  | UG/KG   | 12/02/92          |              | Anthracene                                     |
| PF-36A-W-10'        | 92.26686   | 103333      | < 330.       |                  | UG/KG   | 12/02/92          |              | Azobenzene                                     |
| PF-36A-W-10'        | 92.26686   | 92875       | < 330.       |                  | UG/KG   | 12/02/92          |              | m~Benzidine                                    |
| PF-36A-W-10'        | 92.26686   | 56553       | < 330.       |                  | UG/KG   | 12/02/92          |              | Benzolajanthracene                             |
| PF-36A-W-10'        | 92.26686   | 50328       | < 330.       |                  | UG/KG   | 12/02/92          |              | Benzolajpyrene                                 |
| PF-36A-W-10'        | 92.26686   | 205992      | < 330.       |                  | UG/KG   | 12/02/92          |              |                                                |
| PF-36A-W-10'        | 92.26686   | 191242      | < 330.       |                  | UG/KG   | 12/02/92          |              | Benzolg, n, i jperviene                        |
| PF-36A-W-10'        | 92.26686   | 20/089      | < 330.       |                  | UG/KG   | 12/02/92          |              |                                                |
| PF-36A-W-10'        | 92.26686   | 65850       | < 330.       |                  |         | 12/02/92          |              | Benzul Alcohol                                 |
| PF-36A-W-10'        | 92.26686   | 100516      | < 330.       |                  |         | 12/02/92          |              | Bis (2-ch lorgethoxy) methane                  |
| PF-36A-W-10'        | 92.26686   | 111911      | < 330.       |                  |         | 12/02/92          |              | Bis (2-chloroethyl) ether                      |
| PF-36A-W-10'        | 92.20080   | 111444      | < 330.       |                  |         | 12/02/92          |              | Bis(2-chloroisonronyl)ether                    |
| PF-36A-W-10'        | 92.20080   | 100001      | < 330.       |                  |         | 12/02/92          |              | Bis(2-ethylbeyd)ohthalate                      |
| PF-36A-W-10'        | 92.26686   | 11/81/      | < 330.       |                  |         | 12/02/92          |              | A-BromonbenyInterview ather                    |
| PF-36A-W-10'        | 92.26686   | 101553      | < 330.       |                  |         | 12/02/92          |              | Putvi benzvi obthalate                         |
| PF-36A-W-10'        | 92.26686   | 85687       | < 330.       |                  |         | 12/02/92          |              | A=Chloro=3=methylphenol                        |
| PF-36A-W-10'        | 92.26686   | 59507       | < 330.       |                  |         | 12/02/92          |              | 4-Chloroaniline                                |
| PF-36A-W-10'        | 92.26686   | 1064/8      | < 330.       |                  |         | 12/02/92          |              | <pre>% Chloronanhthalene</pre>                 |
| PF-36A-W-10'        | 92.26686   | 9158/       | < 330.       |                  |         | 12/02/92          |              |                                                |
| PF-36A-W-10'        | 92.26686   | 95578       | < 330.       |                  | UG/KG   | 12/02/92          |              | o chiorophenoi<br>A-Chiorophenoi ether         |
| PF-36A-W-10'        | 92.26686   | 7005723     | < 330.       |                  | UG/KG   | 12/02/92          |              | 4-chtorophenytphenyt ether                     |
| PF-36A-W-10'        | 92.26686   | 218019      | < 330.       | ~~~              | UG/KG   | 12/02/92          |              | un ysene                                       |
| PF-36A-W-10'        | 92.26686   | 84742       | 3300.        | 990.             | UG/KG   | 12/02/92          |              | Di-n-Dutyl phinalale                           |

|              |                       |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT *** | *****                      |  |
|--------------|-----------------------|----------|------------|-------------|---------|----------------|-----------|----------------------------|--|
| CUSTOMER     | SAMPLE                |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |           | Compound                   |  |
| NUMBER       | NUMBER                | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT   | NAME                       |  |
| PF-36A-W-10' | 92.26686              | 117840   | < 330.     |             | UG/KG   | 12/02/92       |           | Di-n-octyl phthalate       |  |
| PF-36A-W-10' | 92.26686              | 53703    | < 330.     |             | UG/KG   | 12/02/92       |           | Dibenzo[a,h]anthracene     |  |
| PF-36A-W-10' | 92.26686              | 132649   | < 330.     |             | UG/KG   | 12/02/92       |           | Dibenzofuran               |  |
| PF-36A-W-10' | 92.26686              | 95501    | < 330.     |             | UG/KG   | 12/02/92       |           | o-Dichlorobenzene (1,2)    |  |
| PF-36A-W-10' | 92.26686              | 541731   | < 330.     |             | UG/KG   | 12/02/92       |           | m-Dichlorobenzene (1,3)    |  |
| PF-36A-W-10' | 92.26686              | 106467   | < 330.     |             | UG/KG   | 12/02/92       |           | p-Dichlorobenzene (1,4)    |  |
| PF-36A-W-104 | 92.26686              | 91941    | < 330.     |             | UG/KG   | 12/02/92       |           | 3,3'-Dichlorobenzidine     |  |
| PF-36A-W-10  | 92.26686              | 120832   | < 330.     |             | UG/KG   | 12/02/92       |           | 2,4-Dichlorophenol         |  |
| PF-36A-W-104 | 92.26686              | 84662    | < 330.     |             | UG/KG   | 12/02/92       |           | Diethyl phthalate          |  |
| PF-36A-W-104 | 92.26686              | 131113   | < 330.     |             | UG/KG   | 12/02/92       |           | Dimethyl phthalate         |  |
| PF-36A-W-10  | 92.26686              | 105679   | < 330.     |             | UG/KG   | 12/02/92       |           | 2,4-Dimethylphenol         |  |
| PF-36A-W-104 | 92.26686              | 51285    | < 330.     |             | UG/KG   | 12/02/92       |           | 2,4-Dinitrophenol          |  |
| PF-36A-W-10  | 92.26686              | 121142   | 11600.     | 3480.       | UG/KG   | 12/02/92       |           | 2,4-Dinitrotoluene         |  |
| PF-36A-W-10  | 92.26686              | 606202   | 400.       | 120.        | UG/KG   | 12/02/92       |           | 2,6-Dinitrotoluene         |  |
| PF-36A-W-10  | 92.26686              | 206440   | < 330.     |             | UG/KG   | 12/02/92       |           | Fluoranthene               |  |
| PF-36A-W-10  | 92.26686              | 86737    | < 330.     |             | UG/KG   | 12/02/92       |           | Fluorene                   |  |
| PF-36A-W-10  | 92.26686              | 118741   | < 330.     |             | UG/KG   | 12/02/92       |           | Hexachlorobenzene          |  |
| PF-36A-W-10  | 92.26686              | 87683    | < 330.     |             | UG/KG   | 12/02/92       |           | Hexachlorobutadiene        |  |
| PF-36A-W-10  | 92.26686              | 77474    | < 330.     |             | UG/KG   | 12/02/92       |           | Hexachlorocyclopentadiene  |  |
| PF-36A-W-10  | 92.26686              | 67721    | < 330.     |             | UG/KG   | 12/02/92       |           | Hexachloroethane           |  |
| PF-36A-W-10  | 92.26686              | 193395   | < 330.     |             | UG/KG   | 12/02/92       |           | Indeno[1,2,3-cd]pyrene     |  |
| PF-36A-W-10  | 92.26686              | 78591    | < 330.     |             | UG/KG   | 12/02/92       |           | Isophorone                 |  |
| PF-36A-W-10  | 92.26686              | 534521   | < 330.     |             | UG/KG   | 12/02/92       |           | 2-Methyl-4,6-dinitrophenol |  |
| PF-36A-W-10  | 92.26686              | 91576    | < 330.     |             | UG/KG   | 12/02/92       |           | 2-Methylnaphthalene        |  |
| PF-36A-W-10  | 92.26686              | 95487    | < 330.     |             | UG/KG   | 12/02/92       |           | 2-Methylphenol             |  |
| PF-36A-W-10  | 92.26686              | 106445   | < 330.     |             | UG/KG   | 12/02/92       |           | 4-Methylphenol             |  |
| PF-36A-W-10  | 92.26686              | 91203    | < 330.     |             | UG/KG   | 12/02/92       |           | Naphthalene                |  |
| PF-36A-W-10  | 92.26686              | 88744    | < 330.     |             | UG/KG   | 12/02/92       |           | 2-Nitroaniline             |  |
| PF-36A-W-10  | 92.26686              | 99092    | < 330.     |             | UG/KG   | 12/02/92       |           | 3-Nitroaniline             |  |
| PF-36A-W-10  | 92.26686              | 100016   | < 330.     |             | UG/KG   | 12/02/92       |           | 4-Nitroaniline             |  |
| PF-36A-W-10  | 92.26686              | 98953    | < 330.     |             | UG/KG   | 12/02/92       |           | Nitrobenzene               |  |
| PF-36A-W-10  | 92.26686              | 88755    | < 330.     |             | UG/KG   | 12/02/92       |           | 2-Nitrophenol              |  |
| PF-36A-W-10  | 92.26686              | 100027   | < 330.     |             | UG/KG   | 12/02/92       |           | 4-Nitrophenol              |  |
| PF-36A-W-10  | 92.26686              | 621647   | < 330.     |             | UG/KG   | 12/02/92       |           | N-Nitrosodi-n-propylamine  |  |
| PF-36A-W-10  | , 92.26686            | 62759    | < 330.     |             | UG/KG   | 12/02/92       |           | N-Nitrosodimethylamine     |  |
| PF-36A       | <sup>,</sup> 92.26686 | 86306    | 1400.      | 420.        | UG/KG   | (02/92         |           | N-Nitrosodiphenylamine     |  |

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|--------------|----------------------------------------|----------|------------|-------------|-------|------------|-------------|------------------------|--|--|--|--|--|
| CUSTOMER     | SAMPLE                                 |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION | · · · · · · | COMPOUND               |  |  |  |  |  |
| NUMBER       | NUMBER                                 | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT     | NAME                   |  |  |  |  |  |
| PF-36A-W-10' | 92.26686                               | 87865    | < 330.     |             | UG/KG | 12/02/92   |             | Pentach lorophenol     |  |  |  |  |  |
| PF-36A-W-10' | 92.26686                               | 85018    | < 330.     |             | UG/KG | 12/02/92   |             | Phenanthrene           |  |  |  |  |  |
| PF-36A-W-10' | 92.26686                               | 108952   | < 330.     |             | UG/KG | 12/02/92   |             | Phenol                 |  |  |  |  |  |
| PF-36A-W-10' | 92.26686                               | 129000   | < 330.     |             | UG/KG | 12/02/92   |             | Pyrene                 |  |  |  |  |  |
| PF-36A-W-10' | 92.26686                               | 120821   | < 330.     |             | UG/KG | 12/02/92   |             | 1,2,4-Trichlorobenzene |  |  |  |  |  |
| PF-36A-W-10' | 92.26686                               | 95954    | < 330.     |             | UG/KG | 12/02/92   |             | 2,4,5-Trichlorophenol  |  |  |  |  |  |
| PF-36A-W-10' | 92.26686                               | 88062    | < 330.     |             | UG/KG | 12/02/92   |             | 2,4,6-Trichlorophenol  |  |  |  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.26686

CUSTOMER

NUMBER

PF-36A

92.26687

84742

< 330.

UG/KG

EPA SEMIVOLATILES Prepared by: LAK on 9-Dec-1992 **REQUEST NUMBER: 13439** MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 **PAGE: 117 OWNER:** Philip R. Fresquez GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815 TECHNIQUE: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD Customer Sample Results, Sample # 92.26687 Date Collected: 8/25/92 Date Received: 8/26/92 Date Extracted: 8/31/92 Date Analyzed: 10/07/92 SAMPLE ANALYTICAL ANALYTICAL COMPLETION COMPOUND NUMBER ANALYSIS RESULT UNCERTAINTY UNITS DATE COMMENT NAME PF-36A-W-5' 92.26687 83329 < 330. UG/KG 12/02/92 Acenaphthene PF-36A-W-5' 92.26687 208968 < 330. UG/KG 12/02/92 Acenaphthylene PF-36A-W-5' 92.26687 62533 < 330. UG/KG 12/02/92 Aniline PF-36A-W-5' 92.26687 120127 < 330. UG/KG 12/02/92 Anthracene PF-36A-W-5' 92.26687 103333 < 330. UG/KG 12/02/92 Azobenzene PF-36A-W-5' 92.26687 92875 < 330. UG/KG 12/02/92 m-Benzidine PF-36A-W-5' 92.26687 56553 < 330. UG/KG 12/02/92 Benzo[a]anthracene PF-36A-W-5' 92.26687 50328 < 330. UG/KG 12/02/92 Benzo[a]pyrene PF-36A-W-5' 92.26687 205992 < 330. UG/KG 12/02/92 Benzo[b]fluoranthene PF-36A-W-5' 92.26687 191242 < 330. UG/KG 12/02/92 Benzo[g,h,i]perylene PF-36A-W-5' 207089 92.26687 < 330. UG/KG 12/02/92 Benzo[k]fluoranthene PF-36A-W-5' 92.26687 65850 < 330. UG/KG 12/02/92 Benzoic acid PF-36A-W-5' 92.26687 100516 < 330. UG/KG 12/02/92 Benzyl alcohol PF-36A-W-5' 92.26687 111911 < 330. UG/KG 12/02/92 Bis(2-chloroethoxy)methane PF-36A-W-5' 92.26687 111444 < 330. UG/KG 12/02/92 Bis(2-chloroethyl)ether PF-36A-W-5' 92.26687 108601 < 330. UG/KG 12/02/92 Bis(2-chloroisopropyl)ether PF-36A-W-5' 92.26687 117817 144. UG/KG 480. 12/02/92 Bis(2-ethylhexyl)phthalate PF-36A-W-5' 92.26687 101553 < 330. UG/KG 12/02/92 4-Bromophenylphenyl ether PF-36A-W-5' 92.26687 85687 < 330. UG/KG 12/02/92 Butyl benzyl phthalate PF-36A-W-5' 92.26687 59507 < 330. UG/KG 12/02/92 4-Chloro-3-methylphenol PF-36A-W-5' 92.26687 106478 < 330. UG/KG 12/02/92 4-Chloroaniline PF-36A-W-5' 92.26687 91587 < 330. UG/KG 12/02/92 2-Chloronaphthalene PF-36A-W-5' 92.26687 95578 < 330. UG/KG 12/02/92 o-Chlorophenol PF-36A-W-5' 92.26687 7005723 < 330. UG/KG 12/02/92 4-Chlorophenylphenyl ether PF-36A-W-5' 92.26687 218019 < 330. UG/KG 12/02/92 Chrysene

02/92

EM-9 ANALYTICAL REPORT

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Di-n-butyl phthalate

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Page: 34

PF-36A-W-5' 92.26687

\*\*\*\*\*\* FM-9 A

EM-9 ANALYTICAL REPORT

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N-Nitrosodiphenylamine

| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |
|-------------|----------|----------|------------|-------------|-------|------------|---------|----------------------------|
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |
| PF-36A-W-5' | 92.26687 | 117840   | < 330.     |             | UG/KG | 12/02/92   |         | Di-n-octyl phthalate       |
| PF-36A-W-5' | 92.26687 | 53703    | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzo[a,h]anthracene     |
| PF-36A-W-5' | 92.26687 | 132649   | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzofuran               |
| PF-36A-W-5' | 92.26687 | 95501    | < 330.     |             | UG/KG | 12/02/92   |         | o-Dichlorobenzene (1,2)    |
| PF-36A-W-5' | 92.26687 | 541731   | < 330.     |             | UG/KG | 12/02/92   |         | m-Dichlorobenzene (1,3)    |
| PF-36A-W-5' | 92.26687 | 106467   | < 330.     |             | UG/KG | 12/02/92   |         | p-Dichlorobenzene (1,4)    |
| PF-36A-W-5' | 92.26687 | 91941    | < 330.     |             | UG/KG | 12/02/92   |         | 3,3'-Dichlorobenzidine     |
| PF-36A-W-5' | 92.26687 | 120832   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dichlorophenol         |
| PF-36A-W-5' | 92.26687 | 84662    | < 330.     |             | UG/KG | 12/02/92   |         | Diethyl phthalate          |
| PF-36A-W-5' | 92.26687 | 131113   | < 330.     |             | UG/KG | 12/02/92   |         | Dimethyl phthalate         |
| PF-36A-W-5' | 92.26687 | 105679   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dimethylphenol         |
| PF-36A-W-5' | 92.26687 | 51285    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrophenol          |
| PF-36A-W-5' | 92.26687 | 121142   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrotoluene         |
| PF-36A-W-5' | 92.26687 | 606202   | < 330.     |             | UG/KG | 12/02/92   |         | 2,6-Dinitrotoluene         |
| PF-36A-W-5' | 92.26687 | 206440   | < 330.     |             | UG/KG | 12/02/92   |         | Fluoranthene               |
| PF-36A-W-5' | 92.26687 | 86737    | < 330.     |             | UG/KG | 12/02/92   |         | Fluorene                   |
| PF-36A-W-5' | 92.26687 | 118741   | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobenzene          |
| PF-36A-W-5' | 92.26687 | 87683    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobutadiene        |
| PF-36A-W-5' | 92.26687 | 77474    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorocyclopentadiene  |
| PF-36A-W-5' | 92.26687 | 67721    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachloroethane           |
| PF-36A-W-5' | 92.26687 | 193395   | < 330.     |             | UG/KG | 12/02/92   |         | Indeno[1,2,3-cd]pyrene     |
| PF-36A-W-5' | 92.26687 | 78591    | < 330.     |             | UG/KG | 12/02/92   |         | Isophorone                 |
| PF-36A-W-5' | 92.26687 | 534521   | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methyl-4,6-dinitrophenol |
| PF-36A-W-5' | 92.26687 | 91576    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylnaphthalene        |
| PF-36A-W-5' | 92.26687 | 95487    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylphenol             |
| PF-36A-W-5' | 92.26687 | 106445   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Methylphenol             |
| PF-36A-W-5' | 92.26687 | 91203    | < 330.     |             | UG/KG | 12/02/92   |         | Naphthalene                |
| PF-36A-W-5' | 92.26687 | 88744    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitroaniline             |
| PF-36A-W-5' | 92.26687 | 99092    | < 330.     |             | UG/KG | 12/02/92   |         | 3-Nitroaniline             |
| PF-36A-W-5' | 92.26687 | 100016   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitroaniline             |
| PF-36A-W-5' | 92.26687 | 98953    | < 330.     |             | UG/KG | 12/02/92   |         | Nitrobenzene               |
| PF-36A-W-5' | 92.26687 | 88755    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitrophenol              |
| PF-36A-W-5' | 92.26687 | 100027   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitrophenol              |
| PF-36A-W-5' | 92.26687 | 621647   | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodi-n-propylamine  |
| PE-36A-W-5/ | 92.26687 | 62759    | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodimethylamine     |

UG/KG

< 330.

86306

12/02/92

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| <u></u>     |          |          | ***        | *****       |       | I-9 ANALYTICAL RI | EPORT * | ****                   |
|-------------|----------|----------|------------|-------------|-------|-------------------|---------|------------------------|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION        |         | COMPOUND               |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE              | COMMENT | NAME                   |
| PF-36A-W-5' | 92.26687 | 87865    | < 330.     |             | UG/KG | 12/02/92          |         | Pentachlorophenol      |
| PF-36A-W-5' | 92.26687 | 85018    | < 330.     |             | UG/KG | 12/02/92          |         | Phenanthrene           |
| PF-36A-W-5' | 92.26687 | 108952   | < 330.     |             | UG/KG | 12/02/92          |         | Phenol                 |
| PF-36A-W-5' | 92.26687 | 129000   | < 330.     |             | UG/KG | 12/02/92          |         | Pyrene                 |
| PF-36A-W-5' | 92.26687 | 120821   | < 330.     |             | UG/KG | 12/02/92          |         | 1,2,4-Trichlorobenzene |
| PF-36A-W-5' | 92.26687 | 95954    | < 330.     |             | UG/KG | 12/02/92          |         | 2,4,5-Trichlorophenol  |
| PF-36A-W-5' | 92.26687 | 88062    | < 330.     |             | UG/KG | 12/02/92          |         | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.26687

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#### REPORT NUMBER: 16239

|                     |            |             | ****                | *****         | ** EM~: | 9 ANALYTICAL REPO | ORT ****     | ****                                            |
|---------------------|------------|-------------|---------------------|---------------|---------|-------------------|--------------|-------------------------------------------------|
|                     |            |             | EPA                 | SEMIVOLATILES | Pre     | pared by: LAK     | 0            | n 9-Dec-1992                                    |
| REQUEST NUMBE       | ER: 13439  | MATRIX      | SS ANALYST          | : ANTHONY LO  | MBARDO  | PI                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                  |
| OWNER: Phili        | ip R. Fres | quez        | GROUP: EM-8         | MAIL-STOP:    | K490 P  | HONE: 7-0815      | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |
| <u>Customer Sam</u> | ple Result | s, Sample # | <u>92.26688</u> Dat | e Collected:  | 8/25/92 | Date Received:    | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 10/07/92 |
| CUSTOMER            | SAMPI F    |             | ANAI YTTCAI         | ANAL YTTCAL   |         | COMPLETION        |              | COMPOUND                                        |
| NUMBER              | NUMBER     | ANALYSIS    | RESULT              | UNCERTAINTY   | UNITS   | DATE              | COMMENT      | NAME                                            |
| DE 364 E 100        | 00.0000    | 83300       | < 000               |               |         | 12/02/02          |              | Acamanhthone                                    |
| PF-36A-E-100        | 92.20000   | 208068      | < 990.              |               |         | 12/02/92          |              | Acenaphthylene                                  |
| PF-36A-E-100        | 92.20000   | 62533       | < 990.              |               | UG/KG   | 12/02/92          |              | Aniline                                         |
| PF-36A-E-100        | 92.20000   | 120127      | < 990.              |               | UG/KG   | 12/02/92          |              | Anthracene                                      |
| PF-364-E-100        | 92 26688   | 103333      | < 990.              |               | UG/KG   | 12/02/92          |              | Azobenzene                                      |
| PF-364-F-100        | 92.26688   | 92875       | < 990.              |               | UG/KG   | 12/02/92          |              | m-Benzidine                                     |
| PF-36A-F-100        | 92.26688   | 56553       | < 990.              |               | UG/KG   | 12/02/92          |              | Benzo[a]anthracene                              |
| PF-36A-F-100        | 92,26688   | 50328       | < 990.              |               | UG/KG   | 12/02/92          |              | Benzo[a]pyrene                                  |
| PF-36A-E-100        | 92.26688   | 205992      | < 990.              |               | UG/KG   | 12/02/92          |              | Benzo[b]fluoranthene                            |
| PF-36A-E-100        | 92.26688   | 191242      | < 990.              |               | UG/KG   | 12/02/92          |              | Benzo[g,h,i]perylene                            |
| PF-36A-E-100        | 92.26688   | 207089      | < 990.              |               | UG/KG   | 12/02/92          |              | Benzo[k]fluoranthene                            |
| PF-36A-E-100        | 92.26688   | 65850       | < 990.              |               | UG/KG   | 12/02/92          |              | Benzoic acid                                    |
| PF-36A-E-100        | 92.26688   | 100516      | < 990.              |               | UG/KG   | 12/02/92          |              | Benzyl alcohol                                  |
| PF-36A-E-100        | 92.26688   | 111911      | < 990.              |               | UG/KG   | 12/02/92          |              | Bis(2-chloroethoxy)methane                      |
| PF-36A-E-100        | 92.26688   | 111444      | < 990.              |               | UG/KG   | 12/02/92          |              | Bis(2-chloroethyl)ether                         |
| PF-36A-E-100        | 92.26688   | 108601      | < 990.              |               | UG/KG   | 12/02/92          |              | Bis(2-chloroisopropyl)ether                     |
| PF-36A-E-100        | 92.26688   | 117817      | 12000.              | 3600.         | UG/KG   | 12/02/92          |              | Bis(2-ethylhexyl)phthalate                      |
| PF-36A-E-100        | 92.26688   | 101553      | < 990.              |               | UG/KG   | 12/02/92          |              | 4-Bromophenylphenyl ether                       |
| PF-36A-E-100        | 92.26688   | 85687       | < 990.              |               | UG/KG   | 12/02/92          |              | Butyl benzyl phthalate                          |
| PF-36A-E-100        | 92.26688   | 59507       | < 990.              |               | UG/KG   | 12/02/92          |              | 4-Chloro-3-methylphenol                         |
| PF-36A-E-100        | 92.26688   | 106478      | < 990.              |               | UG/KG   | 12/02/92          |              | 4-Chloroaniline                                 |
| PF-36A-E-100        | 92.26688   | 91587       | < 990.              |               | UG/KG   | 12/02/92          |              | 2-Chloronaphthalene                             |
| PF-36A~E-100        | 92.26688   | 95578       | < 990.              |               | UG/KG   | 12/02/92          |              | o-Chlorophenol                                  |
| PF-36A-E-100        | 92.26688   | 7005723     | < 990.              |               | UG/KG   | 12/02/92          |              | 4-Chlorophenylphenyl ether                      |
| PF-36A-E-100        | 92.26688   | 218019      | < 990.              |               | UG/KG   | 12/02/92          |              | Chrysene                                        |
| PF-36A-E-100        | 92.26688   | 84742       | 7100.               | 2130.         | UG/KG   | 12/02/92          |              | Di-n-butyl phthalate                            |

COMPLETION COMPOUND SAMPLE ANALYTICAL ANALYTICAL CUSTOMER COMMENT NAME NUMBER ANALYSIS RESULT UNCERTAINTY UNITS DATE NUMBER Di-n-octyl phthalate PF-36A-E-100 92.26688 117840 < 990. UG/KG 12/02/92 UG/KG 12/02/92 Dibenzo[a,h]anthracene PF-36A-E-100 92.26688 53703 < 990. 12/02/92 Dibenzofuran UG/KG PF-36A-E-100 92.26688 132649 < 990. < 990. UG/KG 12/02/92 o-Dichlorobenzene (1.2) PF-36A-E-100 92.26688 95501 12/02/92 UG/KG m-Dichlorobenzene (1,3) PF-36A-E-100 92.26688 541731 < 990. PF-36A-E-100 92.26688 106467 < 990. UG/KG 12/02/92 p-Dichlorobenzene (1,4) UG/KG 12/02/92 3.3'-Dichlorobenzidine PF-36A-E-100 92.26688 91941 < 990. UG/KG 12/02/92 2,4-Dichlorophenol < 990. PF-36A-E-100 92,26688 120832 UG/KG 12/02/92 Diethyl phthalate < 990. 84662 PF-36A-E-100 92.26688 UG/KG 12/02/92 Dimethyl phthalate < 990. PF-36A-E-100 92.26688 131113 UG/KG 12/02/92 2,4-Dimethylphenol PF-36A-E-100 92.26688 105679 < 990. 51285 < 990. UG/KG 12/02/92 2,4-Dinitrophenol PF-36A-E-100 92.26688 3480. UG/KG 12/02/92 2,4-Dinitrotoluene PF-36A-E-100 92,26688 121142 11600. 12/02/92 2,6-Dinitrotoluene < 990. UG/KG 606202 PF-36A-E-100 92,26688 UG/KG 12/02/92 Fluoranthene < 990. 206440 PF-36A-E-100 92.26688 UG/KG 12/02/92 Fluorene PF-36A-E-100 92.26688 86737 < 990. UG/KG 12/02/92 Hexachlorobenzene PF-36A-E-100 92.26688 118741 < 990. Hexachlorobutadiene < 990. UG/KG 12/02/92 PF-36A-E-100 92.26688 87683 UG/KG 12/02/92 Hexachlorocyclopentadiene 77474 < 990. PF-36A-E-100 92.26688 Hexachloroethane < 990. UG/KG 12/02/92 67721 PF-36A-E-100 92.26688 UG/KG 12/02/92 Indeno[1,2,3-cd]pyrene 193395 < 990. PF-36A-E-100 92,26688 UG/KG 12/02/92 Isophorone PF-36A-E-100 92.26688 78591 < 990. 2-Methyl-4,6-dinitrophenol UG/KG 12/02/92 534521 < 990. PF-36A-E-100 92.26688 < 990. UG/KG 12/02/92 2-Methvlnaphthalene PF-36A-E-100 92.26688 91576 UG/KG 12/02/92 2-Methylphenol < 990. 95487 PF-36A-E-100 92.26688 UG/KG 12/02/92 4-Methylphenol < 990. PF-36A-E-100 92.26688 106445 12/02/92 Naphthalene UG/KG 91203 < 990. PF-36A-E-100 92.26688 2-Nitroaniline UG/KG 12/02/92 PF-36A-E-100 92.26688 88744 < 990. 3-Nitroaniline UG/KG 12/02/92 PF-36A-E-100 92.26688 99092 < 990. UG/KG 12/02/92 **4-Nitroaniline** 100016 < 990. PF-36A-E-100 92.26688 UG/KG 12/02/92 Nitrobenzene < 990. PF-36A-E-100 92.26688 98953 2-Nitrophenol UG/KG 12/02/92 88755 < 990. PF-36A-E-100 92.26688 UG/KG 12/02/92 4-Nitrophenol 100027 < 990. PF-36A-E-100 92.26688 N-Nitrosodi-n-propylamine UG/KG 12/02/92 PF-36A-E-100 92.26688 621647 < 990. 12/02/92 N-Nitrosodimethylamine < 990. UG/KG 62759 PF-36A-E-100 92.26688 02/92 N-Nitrosodiphenylamine 390. UG/KG 3 92.26688 86306 1300. PF-36A-

EM-9 ANALYTICAL REPORT

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|----------------------------------------|----------|----------|------------|-------------|-------|------------|---------|------------------------|--|--|
| CUSTOMER                               | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |
| NUMBER                                 | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |
| PF-36A-E-100                           | 92.26688 | 87865    | < 990.     |             | UG/KG | 12/02/92   |         | Pentachlorophenol      |  |  |
| PF-36A-E-100                           | 92.26688 | 85018    | < 990.     |             | UG/KG | 12/02/92   |         | Phenanthrene           |  |  |
| PF-36A-E-100                           | 92.26688 | 108952   | < 990.     |             | UG/KG | 12/02/92   |         | Pheno l                |  |  |
| PF-36A-E-100                           | 92.26688 | 129000   | < 990.     |             | UG/KG | 12/02/92   |         | Pyrene                 |  |  |
| PF-36A-E-100                           | 92.26688 | 120821   | < 990.     |             | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |
| PF-36A-E-100                           | 92.26688 | 95954    | < 990.     |             | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |
| PF-36A-E-100                           | 92.26688 | 88062    | < 990.     |             | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.26688

|                    |              |              | ***               | ****            | ** EM-  | 9 ANALYTICAL REP | ORT ****     | *****                                                                                                           |
|--------------------|--------------|--------------|-------------------|-----------------|---------|------------------|--------------|-----------------------------------------------------------------------------------------------------------------|
|                    |              |              | EP                | A SEMIVOLATILES | 5 Pre   | pared by: LAK    | 01           | n 9-Dec-1992                                                                                                    |
| REQUEST NUM        | 1BER: 13439  | MATRIX       | : SS ANALY        | ST: ANTHONY LO  | MBARDO  | P                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                                                                                  |
| OWNER: Phi         | ilip R. Fres | squez        | GROUP: EM-8       | MAIL-STOP:      | K490 P  | HONE: 7-0815     | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD                                                                     |
| <u>Customer Sa</u> | ample Result | ts, Sample # | <u>92.26689</u> D | ate Collected:  | 8/25/92 | Date Received:   | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 10/07/92                                                                 |
| CUSTOMER           | SAMPLE       |              | ANALYTICAL        | ANALYTICAL      |         | COMPLETION       |              | COMPOUND                                                                                                        |
| NUMBER             | NUMBER       | ANALYSIS     | RESULT            | UNCERTAINTY     | UNITS   | DATE             | COMMENT      | NAME                                                                                                            |
| DE-364-5-76        | 5 92 26689   | 83320        | < 990             |                 |         | 12/02/92         |              | Acenanhthene                                                                                                    |
| PF-36A-F-76        | 5 92.26689   | 208968       | < 990.            |                 | UG/KG   | 12/02/92         |              | Acenaphthylene                                                                                                  |
| PF-36A-F-76        | 5 92.26689   | 62533        | < 990.            |                 | UG/KG   | 12/02/92         |              | Aniline                                                                                                         |
| PF-36A-E-76        | 5 92.26689   | 120127       | < 990.            |                 | UG/KG   | 12/02/92         |              | Anthracene                                                                                                      |
| PF-36A-E-76        | 5 92.26689   | 103333       | < 990.            |                 | UG/KG   | 12/02/92         |              | Azobenzene                                                                                                      |
| PF-36A-E-76        | 5 92.26689   | 92875        | < 990.            |                 | UG/KG   | 12/02/92         |              | m-Benzidine                                                                                                     |
| PF-36A-E-76        | 5 92.26689   | 56553        | < 990.            |                 | UG/KG   | 12/02/92         |              | Benzo[a]anthracene                                                                                              |
| PF-36A-E-76        | 5 92.26689   | 50328        | < 990.            |                 | UG/KG   | 12/02/92         |              | Benzo[a]pyrene                                                                                                  |
| PF-36A-E-76        | 5 92.26689   | 205992       | < 990.            |                 | UG/KG   | 12/02/92         |              | Benzo[b]fluoranthene                                                                                            |
| PF-36A-E-76        | 5 92.26689   | 191242       | < 990.            |                 | UG/KG   | 12/02/92         |              | Benzo[g,h,i]perylene                                                                                            |
| PF-36A-E-76        | 5 92.26689   | 207089       | < 990.            |                 | UG/KG   | 12/02/92         |              | Benzo[k]fluoranthene                                                                                            |
| PF-36A-E-76        | 5 92.26689   | 65850        | < 990.            |                 | UG/KG   | 12/02/92         |              | Benzoic acid                                                                                                    |
| PF-36A-E-76        | 5 92.26689   | 100516       | < 990.            |                 | UG/KG   | 12/02/92         |              | Benzyl alcohol                                                                                                  |
| PF-36A-E-76        | 5 92.26689   | 111911       | < 990.            |                 | UG/KG   | 12/02/92         |              | Bis(2-chloroethoxy)methane                                                                                      |
| PF-36A-E-76        | 6 92.26689   | 111444       | < 990.            |                 | UG/KG   | 12/02/92         |              | Bis(2-chloroethyl)ether                                                                                         |
| PF-36A-E-76        | 6 92.26689   | 108601       | < 990.            |                 | UG/KG   | 12/02/92         |              | Bis(2-chloroisopropyl)ether                                                                                     |
| PF-36A-E-76        | 6 92.26689   | 117817       | 3600.             | 1080.           | UG/KG   | 12/02/92         |              | Bis(2-ethylhexyl)phthalate                                                                                      |
| PF-36A-E-76        | 5 92.26689   | 101553       | < 990.            |                 | UG/KG   | 12/02/92         |              | 4-Bromophenylphenyl ether                                                                                       |
| PF-36A-E-76        | 5 92.26689   | 85687        | < 990.            |                 | UG/KG   | 12/02/92         |              | Butyl benzyl phthalate                                                                                          |
| PF-36A-E-76        | 6 92.26689   | 59507        | < 990.            |                 | UG/KG   | 12/02/92         |              | 4-Chloro-3-methylphenol                                                                                         |
| PF-36A-E-76        | 6 92.26689   | 106478       | < 990.            |                 | UG/KG   | 12/02/92         |              | 4-Chloroaniline                                                                                                 |
| PF-36A-E-76        | 6 92.26689   | 91587        | < 990.            |                 | UG/KG   | 12/02/92         |              | 2-Chloronaphthalene                                                                                             |
| PF-36A-E-76        | 6 92.26689   | 95578        | < 990.            |                 | UG/KG   | 12/02/92         |              | o-Chlorophenol                                                                                                  |
| PF-36A-E-76        | 6 92.26689   | 7005723      | < 990.            |                 | UG/KG   | 12/02/92         |              | 4-Chlorophenylphenyl ether                                                                                      |
| PF-36A-E-70        | 6 92.26689   | 218019       | < 990.            |                 | UG/KG   | 12/02/92         |              | Chrysene                                                                                                        |
| PF-36A-            | 92.26689     | 84742        | 8100.             | 2430.           | UG/KG   | 02/92            |              | Di-n-butyl phthalate                                                                                            |
|                    | 4            |              |                   |                 |         | . and            |              | i de la companya de l |

|             |          | ************************************** |            |             |       |            |         |                            |  |  |  |
|-------------|----------|----------------------------------------|------------|-------------|-------|------------|---------|----------------------------|--|--|--|
| CUSTOMER    | SAMPLE   |                                        | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | Compound                   |  |  |  |
| NUMBER      | NUMBER   | ANALYSIS                               | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |  |  |  |
| PF-36A-E-76 | 92.26689 | 117840                                 | < 990.     |             | UG/KG | 12/02/92   |         | Di-n-octyl phthalate       |  |  |  |
| PF-36A-E-76 | 92.26689 | 53703                                  | < 990.     |             | UG/KG | 12/02/92   |         | Dibenzo[a,h]anthracene     |  |  |  |
| PF-36A-E-76 | 92,26689 | 132649                                 | < 990.     |             | UG/KG | 12/02/92   |         | Dibenzofuran               |  |  |  |
| PF-36A-E-76 | 92.26689 | 95501                                  | < 990.     |             | UG/KG | 12/02/92   |         | o-Dichlorobenzene (1,2)    |  |  |  |
| PF-36A-E-76 | 92.26689 | 541731                                 | < 990.     |             | UG/KG | 12/02/92   |         | m-Dichlorobenzene (1,3)    |  |  |  |
| PF-36A-E-76 | 92.26689 | 106467                                 | < 990.     |             | UG/KG | 12/02/92   |         | p-Dichlorobenzene (1,4)    |  |  |  |
| PF-36A-E-76 | 92.26689 | 91941                                  | < 990.     |             | UG/KG | 12/02/92   |         | 3,3'-Dichlorobenzidine     |  |  |  |
| PF-36A-E-76 | 92.26689 | 120832                                 | < 990.     |             | UG/KG | 12/02/92   |         | 2,4-Dichlorophenol         |  |  |  |
| PF-36A-E-76 | 92.26689 | 84662                                  | < 990.     |             | UG/KG | 12/02/92   |         | Diethyl phthalate          |  |  |  |
| PF-36A-E-76 | 92.26689 | 131113                                 | < 990.     |             | UG/KG | 12/02/92   |         | Dimethyl phthalate         |  |  |  |
| PF-36A-E-76 | 92.26689 | 105679                                 | < 990.     |             | UG/KG | 12/02/92   |         | 2,4-Dimethylphenol         |  |  |  |
| PF-36A-E-76 | 92.26689 | 51285                                  | < 990.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrophenol          |  |  |  |
| PF-36A-E-76 | 92.26689 | 121142                                 | 18800.     | 5640.       | UG/KG | 12/02/92   |         | 2,4-Dinitrotoluene         |  |  |  |
| PF-36A-E-76 | 92.26689 | 606202                                 | < 990.     |             | UG/KG | 12/02/92   |         | 2,6-Dinitrotoluene         |  |  |  |
| PF-36A-E-76 | 92.26689 | 206440                                 | < 990.     |             | UG/KG | 12/02/92   |         | Fluoranthene               |  |  |  |
| PF-36A-E-76 | 92.26689 | 86737                                  | < 990.     |             | UG/KG | 12/02/92   |         | Fluorene                   |  |  |  |
| PF-36A-E-76 | 92.26689 | 118741                                 | < 990.     |             | UG/KG | 12/02/92   |         | Hexachlorobenzene          |  |  |  |
| PF-36A-E-76 | 92.26689 | 87683                                  | < 990.     |             | UG/KG | 12/02/92   |         | Hexachlorobutadiene        |  |  |  |
| PF-36A-E-76 | 92.26689 | 77474                                  | < 990.     |             | UG/KG | 12/02/92   |         | Hexachlorocyclopentadiene  |  |  |  |
| PF-36A-E-76 | 92.26689 | 67721                                  | < 990.     |             | UG/KG | 12/02/92   |         | Hexachloroethane           |  |  |  |
| PF-36A-E-76 | 92.26689 | 193395                                 | < 990.     |             | UG/KG | 12/02/92   |         | Indeno[1,2,3-cd]pyrene     |  |  |  |
| PF-36A-E-76 | 92.26689 | 78591                                  | < 990.     |             | UG/KG | 12/02/92   |         | Isophorone                 |  |  |  |
| PF-36A-E-76 | 92.26689 | 534521                                 | < 990.     |             | UG/KG | 12/02/92   |         | 2-Methyl-4,6-dinitrophenol |  |  |  |
| PF-36A-E-76 | 92.26689 | 91576                                  | < 990.     |             | UG/KG | 12/02/92   |         | 2-Methylnaphthalene        |  |  |  |
| PF-36A-E-76 | 92.26689 | 95487                                  | < 990.     |             | UG/KG | 12/02/92   |         | 2-Methylphenol             |  |  |  |
| PF-36A-E-76 | 92.26689 | 106445                                 | < 990.     |             | UG/KG | 12/02/92   |         | 4-Methylphenol             |  |  |  |
| PF-36A-E-76 | 92.26689 | 91203                                  | < 990.     |             | UG/KG | 12/02/92   |         | Naphthalene                |  |  |  |
| PF-36A-E-76 | 92.26689 | 88744                                  | < 990.     |             | UG/KG | 12/02/92   |         | 2-Nitroaniline             |  |  |  |
| PF-36A-E-76 | 92.26689 | 99092                                  | < 990.     |             | UG/KG | 12/02/92   |         | 3-Nitroaniline             |  |  |  |
| PF-36A-E-76 | 92.26689 | 100016                                 | < 990.     |             | UG/KG | 12/02/92   |         | 4-Nitroaniline             |  |  |  |
| PF-36A-E-76 | 92.26689 | 98953                                  | < 990.     |             | UG/KG | 12/02/92   |         | Nitrobenzene               |  |  |  |
| PF-36A-E-76 | 92.26689 | 88755                                  | < 990.     |             | UG/KG | 12/02/92   |         | 2-Nitrophenol              |  |  |  |
| PF-36A-E-76 | 92.26689 | 100027                                 | < 990.     |             | UG/KG | 12/02/92   |         | 4-Nitrophenol              |  |  |  |
| PE-36A-E-76 | 92.26689 | 621647                                 | < 990.     |             | UG/KG | 12/02/92   |         | N-Nitrosodi-n-propylamine  |  |  |  |
| PF-36A-E-76 | 92.26689 | 62759                                  | < 990.     |             | UG/KG | 12/02/92   |         | N-Nitrosodimethylamine     |  |  |  |
| PF-36A-E-76 | 92.26689 | 86306                                  | 2200.      | 660.        | UG/KG | 12/02/92   |         | N-Nitrosodiphenylamine     |  |  |  |

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|----------------------------------------|----------|-----------|----------------------|------------|-------|------------|---------|------------------------|--|
| CUSTOMER                               | SAMPLE   | ANAI YSTS | ANALYTICAL<br>RESULT | ANALYTICAL | INTTS | COMPLETION | COMMENT |                        |  |
| Horbert                                | HOIDEN   | 144121313 | RESULT               | UNCERTAINT | 01113 | DATE       | COMPLET | HARL                   |  |
| PF-36A-E-76                            | 92.26689 | 87865     | < 990.               |            | UG/KG | 12/02/92   |         | Pentach lorophenol     |  |
| PF-36A-E-76                            | 92.26689 | 85018     | < 990.               |            | UG/KG | 12/02/92   |         | Phenanthrene           |  |
| PF-36A-E-76                            | 92.26689 | 108952    | < 990.               |            | UG/KG | 12/02/92   |         | Phenol                 |  |
| PF-36A-E-76                            | 92.26689 | 129000    | < 990.               |            | UG/KG | 12/02/92   |         | Pyrene                 |  |
| PF-36A-E-76                            | 92.26689 | 120821    | < 990.               |            | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |
| PF-36A-E-76                            | 92.26689 | 95954     | < 990.               |            | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |
| PF-36A-E-76                            | 92.26689 | 88062     | < 990.               |            | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |

Tentatively Identified Compounds in Customer Sample # 92.26689



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\$ %

|                                                                                                         |            |             | ***             | ****             | ** EM-  | 9 ANALYTICAL REP | ORT ****  | *****                                           |  |  |  |
|---------------------------------------------------------------------------------------------------------|------------|-------------|-----------------|------------------|---------|------------------|-----------|-------------------------------------------------|--|--|--|
|                                                                                                         |            |             | Ef              | PA SEMIVOLATILES | Pre     | pared by: LAK    | 0         | n 9-Dec-1992                                    |  |  |  |
| REQUEST NUMBER: 13439 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117 |            |             |                 |                  |         |                  |           |                                                 |  |  |  |
| OWNER: Phil                                                                                             | ip R. Fres | iquez (     | GROUP: EM-8     | MAIL-STOP:       | K490 P  | HONE: 7-0815     | TECHNIQUE | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |  |  |  |
| <u>Customer Sam</u>                                                                                     | ple Result | s, Sample # | <u>92.26690</u> | Date Collected:  | 8/25/92 | Date Received:   | 8/26/92   | Date Extracted: 8/31/92 Date Analyzed: 10/07/92 |  |  |  |
| CUSTOMER                                                                                                | SAMPLE     |             | ANALYTICAL      | ANALYTICAL       |         | COMPLETION       |           | COMPOUND                                        |  |  |  |
| NUMBER                                                                                                  | NUMBER     | ANALYSIS    | RESULT          | UNCERTAINTY      | UNITS   | DATE             | COMMENT   | NAME                                            |  |  |  |
| DE-364-E-60/                                                                                            | 02 25500   | 83320       | < 1300          |                  | UG/KG   | 12/02/92         |           | Acenanhthene                                    |  |  |  |
| PF-36A-E-50                                                                                             | 92.20090   | 208968      | < 1300.         |                  |         | 12/02/92         |           | Acenaphthelene                                  |  |  |  |
| PE-364-E-50                                                                                             | 92.20090   | 62533       | < 1300.         |                  | UG/KG   | 12/02/92         |           | Aniline                                         |  |  |  |
| PE-364-E-50'                                                                                            | 92 26690   | 120127      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Anthracene                                      |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 103333      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Azobenzene                                      |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 92875       | < 1300.         |                  | UG/KG   | 12/02/92         |           | m-Benzidine                                     |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 56553       | < 1300.         |                  | UG/KG   | 12/02/92         |           | Benzo[a]anthracene                              |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 50328       | < 1300.         |                  | UG/KG   | 12/02/92         |           | Benzo[a]pyrene                                  |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 205992      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Benzo[b]fluoranthene                            |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 191242      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Benzo[g,h,i]perylene                            |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 207089      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Benzo[k]fluoranthene                            |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 65850       | < 1300.         |                  | UG/KG   | 12/02/92         |           | Benzoic acid                                    |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 100516      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Benzyl alcohol                                  |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 111911      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Bis(2-chloroethoxy)methane                      |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 111444      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Bis(2-chloroethyl)ether                         |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 108601      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Bis(2-chloroisopropyl)ether                     |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 117817      | 11700.          | 3510.            | UG/KG   | 12/02/92         |           | Bis(2-ethylhexyl)phthalate                      |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 101553      | < 1300.         |                  | UG/KG   | 12/02/92         |           | 4-Bromophenylphenyl ether                       |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 85687       | < 1300.         |                  | UG/KG   | 12/02/92         |           | Butyl benzyl phthalate                          |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 59507       | < 1300.         |                  | UG/KG   | 12/02/92         |           | 4-Chloro-3-methylphenol                         |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 106478      | < 1300.         |                  | UG/KG   | 12/02/92         |           | 4-Chloroaniline                                 |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 91587       | < 1300.         | -                | UG/KG   | 12/02/92         |           | 2-Chloronaphthalene                             |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 95578       | < 1300.         |                  | UG/KG   | 12/02/92         |           | o-Chlorophenol                                  |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 7005723     | < 1300.         |                  | UG/KG   | 12/02/92         |           | 4-Chlorophenylphenyl ether                      |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 218019      | < 1300.         |                  | UG/KG   | 12/02/92         |           | Chrysene                                        |  |  |  |
| PF-36A-E-50'                                                                                            | 92.26690   | 84742       | 20000.          | 6000.            | UG/KG   | 12/02/92         |           | Di-n-butyl phthalate                            |  |  |  |

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* EM-9 ANALYTICAL REPORT \*

| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                          |  |
|--------------|----------|----------|------------|-------------|-------|------------|---------|-----------------------------------|--|
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                              |  |
|              |          |          |            |             |       |            |         |                                   |  |
| PF-36A-E-50' | 92.26690 | 117840   | < 1300.    |             | UG/KG | 12/02/92   |         | Di-n-octyl phthalate              |  |
| PF-36A-E-50' | 92.26690 | 53703    | < 1300.    |             | UG/KG | 12/02/92   |         | Dibenzo[a,h]anthracene            |  |
| PF-36A-E-50' | 92.26690 | 132649   | < 1300.    |             | UG/KG | 12/02/92   |         | Dibenzofuran                      |  |
| PF-36A-E-50  | 92.26690 | 95501    | < 1300.    |             | UG/KG | 12/02/92   |         | o-Dichlorobenzene (1,2)           |  |
| PF-36A-E-50' | 92.26690 | 541731   | < 1300.    |             | UG/KG | 12/02/92   |         | m-Dichlorobenzene (1,3)           |  |
| PF-36A-E-50  | 92.26690 | 106467   | < 1300.    |             | UG/KG | 12/02/92   |         | p-Dichlorobenzene (1,4)           |  |
| PF-36A-E-50  | 92.26690 | 91941    | < 1300.    |             | UG/KG | 12/02/92   |         | 3,3'-Dichlorobenzidine            |  |
| PF-36A-E-50  | 92.26690 | 120832   | < 1300.    |             | UG/KG | 12/02/92   |         | 2,4-Dichlorophenol                |  |
| PF-36A-E-50  | 92.26690 | 84662    | < 1300.    |             | UG/KG | 12/02/92   |         | Diethyl phthalate                 |  |
| PF-36A-E-50  | 92.26690 | 131113   | < 1300.    |             | UG/KG | 12/02/92   |         | Dimethyl phthalate                |  |
| PF-36A-E-50  | 92.26690 | 105679   | < 1300.    |             | UG/KG | 12/02/92   |         | 2,4-Dimethylphenol                |  |
| PF-36A-E-50  | 92.26690 | 51285    | < 1300.    |             | UG/KG | 12/02/92   |         | 2,4-Dinitrophenol                 |  |
| PF-36A-E-504 | 92.26690 | 121142   | 48300.     | 14490.      | UG/KG | 12/02/92   |         | 2,4-Dinitrotoluene                |  |
| PF-36A-E-50  | 92.26690 | 606202   | 2100.      | 630.        | UG/KG | 12/02/92   |         | 2,6-Dinitrotoluene                |  |
| PF-36A-E-50  | 92.26690 | 206440   | < 1300.    |             | UG/KG | 12/02/92   |         | Fluoranthene                      |  |
| PF-36A-E-50  | 92.26690 | 86737    | < 1300.    |             | UG/KG | 12/02/92   |         | Fluorene                          |  |
| PF-36A-E-50  | 92.26690 | 118741   | < 1300.    |             | UG/KG | 12/02/92   |         | Hexachlorobenzene                 |  |
| PF-36A-E-50  | 92.26690 | 87683    | < 1300.    |             | UG/KG | 12/02/92   |         | Hexachlorobutadiene               |  |
| PF-36A-E-50  | 92.26690 | 77474    | < 1300.    |             | UG/KG | 12/02/92   |         | Hexachlorocyclopentadiene         |  |
| PF-36A-E-50  | 92.26690 | 67721    | < 1300.    |             | UG/KG | 12/02/92   |         | Hexachloroethane                  |  |
| PF-36A-E-50  | 92.26690 | 193395   | < 1300.    |             | UG/KG | 12/02/92   |         | <pre>Indeno[1,2,3-cd]pyrene</pre> |  |
| PF-36A-E-50  | 92.26690 | 78591    | < 1300.    |             | UG/KG | 12/02/92   |         | Isophorone                        |  |
| PF-36A-E-50  | 92.26690 | 534521   | < 1300.    |             | UG/KG | 12/02/92   |         | <b>2-Methyl-4,6-dinitrophenol</b> |  |
| PF-36A-E-50  | 92.26690 | 91576    | < 1300.    |             | UG/KG | 12/02/92   |         | 2-Methylnaphthalene               |  |
| PF-36A-E-50  | 92.26690 | 95487    | < 1300.    |             | UG/KG | 12/02/92   |         | 2-Methylphenol                    |  |
| PF-36A-E-50  | 92.26690 | 106445   | < 1300.    |             | UG/KG | 12/02/92   |         | 4-Methylphenol                    |  |
| PF-36A-E-50  | 92.26690 | 91203    | < 1300.    |             | UG/KG | 12/02/92   |         | Naphthalene                       |  |
| PF-36A-E-50  | 92.26690 | 88744    | < 1300.    |             | UG/KG | 12/02/92   |         | 2-Nitroaniline                    |  |
| PF-36A-E-50  | 92.26690 | 99092    | < 1300.    |             | UG/KG | 12/02/92   |         | 3-Nitroaniline                    |  |
| PF-36A-E-50  | 92.26690 | 100016   | < 1300.    |             | UG/KG | 12/02/92   |         | 4-Nitroaniline                    |  |
| PF-36A-E-50  | 92.26690 | 98953    | < 1300.    |             | UG/KG | 12/02/92   |         | Nitrobenzene                      |  |
| PF-36A-E-50  | 92.26690 | 88755    | < 1300.    |             | UG/KG | 12/02/92   |         | 2-Nitrophenol                     |  |
| PF-36A-E-50  | 92.26690 | 100027   | < 1300.    |             | UG/KG | 12/02/92   |         | 4-Nitrophenol                     |  |
| PF-36A-E-50  | 92.26690 | 621647   | < 1300.    |             | UG/KG | 12/02/92   |         | N-Nitrosodi-n-propylamine         |  |
| PF-36A-E-50  | 92.26690 | 62759    | < 1300.    |             | UG/KG | 12/02/92   |         | N-Nitrosodimethylamine            |  |
| PF-36A       | 92.26690 | 86306    | 5800.      | 1740.       | UG/KG | 02/92      |         | N-Nitrosodiphenylamine            |  |
|              |          |          |            |             |       |            |         | · · ·                             |  |

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|----------------------------------------|----------|----------|------------|-------------|-------|------------|---------|------------------------|--|--|
| CUSTOMER                               | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |
| NUMBER                                 | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |
| PF-36A-E-50'                           | 92.26690 | 87865    | < 1300.    |             | UG/KG | 12/02/92   |         | Pentachlorophenol      |  |  |
| PF-36A-E-50'                           | 92.26690 | 85018    | < 1300.    |             | UG/KG | 12/02/92   |         | Phenanthrene           |  |  |
| PF-36A-E-50'                           | 92.26690 | 108952   | < 1300.    |             | UG/KG | 12/02/92   |         | Phenol                 |  |  |
| PF-36A-E-50'                           | 92.26690 | 129000   | < 1300.    |             | UG/KG | 12/02/92   |         | Pyrene                 |  |  |
| PF-36A-E-50'                           | 92.26690 | 120821   | < 1300.    |             | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |
| PF-36A-E-50'                           | 92.26690 | 95954    | < 1300.    |             | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |
| PE-36A-E-50'                           | 92.26690 | 88062    | < 1300.    |             | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.26690

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|                                                                                                         |            |             | **1         | ****             | ** EM-! | 9 ANALYTICAL REPO | DRT ****  | *******                                         |  |  |  |
|---------------------------------------------------------------------------------------------------------|------------|-------------|-------------|------------------|---------|-------------------|-----------|-------------------------------------------------|--|--|--|
|                                                                                                         |            |             | EF          | PA SEMIVOLATILES | Pre     | pared by: LAK     | o         | on 9-Dec-1992                                   |  |  |  |
| REQUEST NUMBER: 13439 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117 |            |             |             |                  |         |                   |           |                                                 |  |  |  |
| OWNER: Phil                                                                                             | ip R. Fres | quez        | GROUP: EM-8 | MAIL-STOP:       | K490 PI | HONE: 7-0815      | TECHNIQUE | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |  |  |  |
| <u>Customer Sam</u>                                                                                     | ple Result | s, Sample # | 92.26691 0  | Date Collected:  | 8/25/92 | Date Received:    | 8/26/92   | Date Extracted: 8/31/92 Date Analyzed: 10/07/92 |  |  |  |
| CUSTOMER                                                                                                | SAMPLE     |             | ANALYTICAL  | ANALYTICAL       |         | COMPLETION        |           | COMPOUND                                        |  |  |  |
| NUMBER                                                                                                  | NUMBER     | ANALYSIS    | RESULT      | UNCERTAINTY      | UNITS   | DATE              | COMMENT   | NAME                                            |  |  |  |
| 05-264-5-26/                                                                                            | 02 26601   | 03330       | < 1300      |                  |         | 12/02/02          |           | A                                               |  |  |  |
| PF-36A-E-25                                                                                             | 92.20091   | 208968      | < 1300.     |                  |         | 12/02/92          |           | Acenaphthelene                                  |  |  |  |
| PF-364-F-25/                                                                                            | 92.20091   | 62533       | < 1300.     |                  |         | 12/02/92          |           | Aniline                                         |  |  |  |
| PE-36A-E-25'                                                                                            | 92.26691   | 120127      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Anthracene                                      |  |  |  |
| PE-36A-E-25'                                                                                            | 92.26691   | 103333      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Azobenzene                                      |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 92875       | < 1300.     |                  | UG/KG   | 12/02/92          |           | m-Benzidine                                     |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 56553       | < 1300.     |                  | UG/KG   | 12/02/92          |           | Benzofalanthracene                              |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 50328       | < 1300.     |                  | UG/KG   | 12/02/92          |           | Benzofalpyrene                                  |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 205992      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Benzo[b]fluoranthene                            |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 191242      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Benzo[g,h,i]perylene                            |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 207089      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Benzo[k]fluoranthene                            |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 65850       | < 1300.     |                  | UG/KG   | 12/02/92          |           | Benzoic acid                                    |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 100516      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Benzyl alcohot                                  |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 111911      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Bis(2-chloroethoxy)methane                      |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 111444      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Bis(2-chloroethyl)ether                         |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 108601      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Bis(2-chloroisopropyl)ether                     |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 117817      | 23900.      | 7170.            | UG/KG   | 12/02/92          |           | Bis(2-ethylhexyl)phthalate                      |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 101553      | < 1300.     |                  | UG/KG   | 12/02/92          |           | 4-Bromophenylphenyl ether                       |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 85687       | < 1300.     |                  | UG/KG   | 12/02/92          |           | Butyl benzyl phthalate                          |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 59507       | < 1300.     |                  | UG/KG   | 12/02/92          |           | 4-Chloro-3-methylphenol                         |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 106478      | < 1300.     |                  | UG/KG   | 12/02/92          |           | 4-Chloroaniline                                 |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 91587       | < 1300.     |                  | UG/KG   | 12/02/92          |           | 2-Chloronaphthalene                             |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 95578       | < 1300.     |                  | UG/KG   | 12/02/92          |           | o-Chlorophenol                                  |  |  |  |
| PF-36A-E-25'                                                                                            | 92.26691   | 7005723     | < 1300.     |                  | UG/KG   | 12/02/92          |           | 4-Chiorophenylphenyl ether                      |  |  |  |
| PF-36A-E-25                                                                                             | 92.26691   | 218019      | < 1300.     |                  | UG/KG   | 12/02/92          |           | Chrysene                                        |  |  |  |
| PF-36A-                                                                                                 | 92.26691   | 84742       | < 1300.     |                  | UG/KG   | 72/92             |           | Di-n-butyl phthalate 🔹 🖉                        |  |  |  |

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## REPORT NUMBER: 16239

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|              |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT ** | ******                     |
|--------------|----------|----------|------------|-------------|---------|----------------|----------|----------------------------|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |          | COMPOUND                   |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT  | NAME                       |
| PF-36A-E-25' | 92.26691 | 117840   | < 1300.    |             | UG/KG   | 12/02/92       |          | Di-n-octyl phthalate       |
| PF-36A-E-25' | 92.26691 | 53703    | < 1300.    |             | UG/KG   | 12/02/92       |          | Dibenzo[a,h]anthracene     |
| PF-36A-E-25' | 92.26691 | 132649   | < 1300.    |             | UG/KG   | 12/02/92       |          | Dibenzofuran               |
| PF-36A-E-25' | 92.26691 | 95501    | < 1300.    |             | UG/KG   | 12/02/92       |          | o-Dichlorobenzene (1,2)    |
| PF-36A-E-25' | 92.26691 | 541731   | < 1300.    |             | UG/KG   | 12/02/92       |          | m-Dichlorobenzene (1,3)    |
| PF-36A-E-25' | 92.26691 | 106467   | < 1300.    |             | UG/KG   | 12/02/92       |          | p-Dichlorobenzene (1,4)    |
| PF-36A-E-25' | 92.26691 | 91941    | < 1300.    |             | UG/KG   | 12/02/92       |          | 3,3'-Dichlorobenzidine     |
| PF-36A-E-25' | 92.26691 | 120832   | < 1300.    |             | UG/KG   | 12/02/92       |          | 2,4-Dichlorophenol         |
| PF-36A-E-25' | 92.26691 | 84662    | < 1300.    |             | UG/KG   | 12/02/92       |          | Diethyl phthalate          |
| PF-36A-E-25' | 92.26691 | 131113   | < 1300.    |             | UG/KG   | 12/02/92       |          | Dimethyl phthalate         |
| PF-36A-E-25' | 92.26691 | 105679   | < 1300.    |             | UG/KG   | 12/02/92       |          | 2,4-Dimethylphenol         |
| PF-36A-E-25' | 92.26691 | 51285    | < 1300.    |             | UG/KG   | 12/02/92       |          | 2,4-Dinitrophenol          |
| PF-36A-E-25' | 92.26691 | 121142   | < 1300.    |             | UG/KG   | 12/02/92       |          | 2,4-Dinitrotoluene         |
| PF-36A-E-25' | 92.26691 | 606202   | < 1300.    |             | UG/KG   | 12/02/92       |          | 2,6-Dinitrotoluene         |
| PF-36A-E-25' | 92.26691 | 206440   | < 1300.    |             | UG/KG   | 12/02/92       |          | Fluoranthene               |
| PF-36A-E-25' | 92.26691 | 86737    | < 1300.    |             | UG/KG   | 12/02/92       |          | Fluorene                   |
| PF-36A-E-25' | 92.26691 | 118741   | < 1300.    |             | UG/KG   | 12/02/92       |          | Hexachlorobenzene          |
| PF-36A-E-25' | 92.26691 | 87683    | < 1300.    |             | UG/KG   | 12/02/92       |          | Hexachlorobutadiene        |
| PF-36A-E-25' | 92.26691 | 77474    | < 1300.    |             | UG/KG   | 12/02/92       |          | Hexachlorocyclopentadiene  |
| PF-36A-E-25' | 92.26691 | 67721    | < 1300.    |             | UG/KG   | 12/02/92       |          | Hexachloroethane           |
| PF-36A-E-25' | 92.26691 | 193395   | < 1300.    |             | UG/KG   | 12/02/92       |          | Indeno[1,2,3-cd]pyrene     |
| PF-36A-E-25' | 92.26691 | 78591    | < 1300.    |             | UG/KG   | 12/02/92       |          | Isophorone                 |
| PF-36A-E-25' | 92.26691 | 534521   | < 1300.    |             | UG/KG   | 12/02/92       |          | 2-Methyl-4,6-dinitrophenol |
| PF-36A-E-25' | 92.26691 | 91576    | < 1300.    |             | UG/KG   | 12/02/92       |          | 2-Methylnaphthalene        |
| PF-36A-E-25' | 92.26691 | 95487    | < 1300.    |             | UG/KG   | 12/02/92       |          | 2-Methylphenol             |
| PF-36A-E-25' | 92.26691 | 106445   | < 1300.    |             | UG/KG   | 12/02/92       |          | 4-Methylphenol             |
| PF-36A-E-25' | 92.26691 | 91203    | < 1300.    |             | UG/KG   | 12/02/92       |          | Naphthalene                |
| PF-36A-E-25' | 92.26691 | 88744    | < 1300.    |             | UG/KG   | 12/02/92       |          | 2-Nitroaniline             |
| PF-36A-E-25' | 92.26691 | 99092    | < 1300.    |             | UG/KG   | 12/02/92       |          | 3-Nitroaniline             |
| PF-36A-E-25' | 92.26691 | 100016   | < 1300.    |             | UG/KG   | 12/02/92       |          | 4-Nitroaniline             |
| PF-36A-E-25' | 92.26691 | 98953    | < 1300.    |             | UG/KG   | 12/02/92       |          | Nitrobenzene               |
| PF-36A-E-25' | 92.26691 | 88755    | < 1300.    |             | UG/KG   | 12/02/92       |          | 2-Nitrophenol              |
| PF-36A-E-25' | 92.26691 | 100027   | < 1300.    |             | UG/KG   | 12/02/92       |          | 4-Nitrophenol              |
| PF-36A-E-25' | 92.26691 | 621647   | < 1300.    |             | UG/KG   | 12/02/92       |          | N-Nitrosodi-n-propylamine  |
| PF-36A-E-25' | 92.26691 | 62759    | < 1300.    |             | UG/KG   | 12/02/92       |          | N-Nitrosodimethylamine     |

UG/KG

12/02/92

N-Nitrosodiphenylamine

PF-36A-E-25' 92.26691

86306

< 1300.

PF-36A-E-25' 92.26691

PF-36A-E-25' 92.26691

PF-36A-E-25' 92.26691

PF-36A-E-25' 92.26691

PF-36A-E-25' 92.26691

| ***************************** EM-9 ANALYTICAL REPORT ************************************ |                  |          |                      |                           |       |                    |         |                   |  |  |
|-------------------------------------------------------------------------------------------|------------------|----------|----------------------|---------------------------|-------|--------------------|---------|-------------------|--|--|
| CUSTOMER<br>NUMBER                                                                        | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME  |  |  |
| PF-36A-E-25'                                                                              | 92.26691         | 87865    | < 1300.              |                           | UG/KG | 12/02/92           |         | Pentachlorophenol |  |  |
| PF-36A-E-25'                                                                              | 92.26691         | 85018    | < 1300.              |                           | UG/KG | 12/02/92           |         | Phenanthrene      |  |  |

Phenol

Pyrene

1,2,4-Trichlorobenzene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

UG/KG

UG/KG

UG/KG

UG/KG

UG/KG

12/02/92

12/02/92

12/02/92

12/02/92

12/02/92

Tentatively Identified Compounds in Customer Sample # 92.26691

108952

129000

120821

95954

88062

< 1300.

< 1300.

< 1300.

< 1300.

< 1300.

none

|                     |            |             | ****                | *****         | ** EM-  | 9 ANALYTICAL REP | ORT *****    | ********                                        |
|---------------------|------------|-------------|---------------------|---------------|---------|------------------|--------------|-------------------------------------------------|
|                     |            |             | EPA                 | SEMIVOLATILES | 5 Pre   | pared by: LAK    | or           | 9-Dec-1992                                      |
| REQUEST NUMB        | ER: 13439  | MATRI       | X: SS ANALYST       | : ANTHONY LO  | MBARDO  | P                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                  |
| OWNER: Phil         | ip R. Fres | quez        | GROUP: EM-8         | MAIL-STOP:    | K490 P  | HONE: 7-0815     | TECHNIQUE:   | GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD       |
| <u>Customer Sam</u> | ple Result | s, Sample # | <u>92.26692</u> Dat | e Collected:  | 8/25/92 | Date Received:   | 8/26/92      | Date Extracted: 8/31/92 Date Analyzed: 10/08/92 |
| CUSTOMER            | SAMPLE     |             | ANAL YTTCAL         | ANALYTICAL    |         |                  |              | COMPONIND                                       |
| NUMBER              | NUMBER     | ANALYSIS    | RESULT              | UNCERTAINTY   | UNITS   | DATE             | COMMENT      | NAME                                            |
|                     |            |             |                     |               |         |                  |              |                                                 |
| PF-36A-E-10'        | 92.26692   | 83329       | < 330.              |               | UG/KG   | 12/02/92         |              | Acenaphthene                                    |
| PF-36A-E-10'        | 92.26692   | 208968      | < 330.              |               | UG/KG   | 12/02/92         |              | Acenaphthylene                                  |
| PF-36A-E-10'        | 92.26692   | 62533       | < 330.              |               | UG/KG   | 12/02/92         |              | Aniline                                         |
| PF-36A-E-10'        | 92.26692   | 120127      | < 330.              |               | UG/KG   | 12/02/92         |              | Anthracene                                      |
| PF-36A-E-10'        | 92.26692   | 103333      | < 330.              |               | UG/KG   | 12/02/92         |              | Azobenzene                                      |
| PF-36A-E-10'        | 92.26692   | 92875       | < 330.              |               | UG/KG   | 12/02/92         |              | m-Benzidine                                     |
| PF-36A-E-10'        | 92.26692   | 56553       | < 330.              |               | UG/KG   | 12/02/92         |              | Benzo[a]anthracene                              |
| PF-36A-E-10'        | 92.26692   | 50328       | < 330.              |               | UG/KG   | 12/02/92         |              | Benzo[a]pyrene                                  |
| PF-36A-E-10'        | 92.26692   | 205992      | < 330.              |               | UG/KG   | 12/02/92         |              | Benzo[b]fluoranthene                            |
| PF-36A-E-10'        | 92.26692   | 191242      | < 330.              |               | UG/KG   | 12/02/92         |              | Benzo[g,h,i]perylene                            |
| PF-36A-E-10'        | 92.26692   | 207089      | < 330.              |               | UG/KG   | 12/02/92         |              | Benzo[k]fluoranthene                            |
| PF-36A-E-10'        | 92.26692   | 65850       | < 330.              |               | UG/KG   | 12/02/92         |              | Benzoic acid                                    |
| PF-36A-E-10'        | 92.26692   | 100516      | < 330.              |               | UG/KG   | 12/02/92         |              | Benzyl alcohol                                  |
| PF-36A-E-10'        | 92.26692   | 111911      | < 330.              |               | UG/KG   | 12/02/92         |              | Bis(2-chloroethoxy)methane                      |
| PF-36A-E-10'        | 92.26692   | 111444      | < 330.              |               | UG/KG   | 12/02/92         |              | Bis(2-chloroethyl)ether                         |
| PF-36A-E-10'        | 92.26692   | 108601      | < 330.              |               | UG/KG   | 12/02/92         |              | Bis(2-chloroisopropyl)ether                     |
| PF-36A-E-10'        | 92.26692   | 117817      | < 330.              |               | UG/KG   | 12/02/92         |              | Bis(2-ethylhexyl)phthalate                      |
| PF-36A-E-10'        | 92.26692   | 101553      | < 330.              |               | UG/KG   | 12/02/92         |              | 4-Bromophenylphenyl ether                       |
| PF-36A-E-10'        | 92.26692   | 85687       | < 330.              |               | UG/KG   | 12/02/92         |              | Butyl benzyl phthalate                          |
| PF-36A-E-10'        | 92.26692   | 59507       | < 330.              |               | UG/KG   | 12/02/92         |              | 4-Chloro-3-methylphenol                         |
| PF-36A-E-10'        | 92.26692   | 106478      | < 330.              |               | UG/KG   | 12/02/92         |              | 4-Chloroaniline                                 |
| PF-36A-E-10'        | 92.26692   | 91587       | < 330.              |               | UG/KG   | 12/02/92         |              | 2-Chloronaphthalene                             |
| PF-36A-E-10'        | 92.26692   | 95578       | < 330.              |               | UG/KG   | 12/02/92         |              | o-Chlorophenol                                  |
| PF-36A-E-10'        | 92.26692   | 7005723     | < 330.              |               | UG/KG   | 12/02/92         |              | 4-Chlorophenylphenyl ether                      |
| PF-36A-E-10'        | 92.26692   | 218019      | < 330.              |               | UG/KG   | 12/02/92         |              | Chrysene                                        |
| PF-36A-E-10'        | 92.26692   | 84742       | 970.                | 291.          | UG/KG   | 12/02/92         |              | Di-n-butyl phthalate                            |

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PF-36A-5

92.26692

86306

ANALYTICAL ANALYTICAL COMPLETION COMPOUND CUSTOMER SAMPLE UNITS DATE COMMENT NAME RESULT UNCERTAINTY NUMBER NUMBER ANALYSIS Di-n-octyl phthalate < 330. UG/KG 12/02/92 PF-36A-E-10' 92.26692 117840 Dibenzo[a,h]anthracene PF-36A-E-10' 92.26692 53703 < 330. UG/KG 12/02/92 < 330. UG/KG 12/02/92 Dibenzofuran PF-36A-E-10' 92.26692 132649 UG/KG 12/02/92 o-Dichlorobenzene (1,2) PF-36A-E-10' 92.26692 95501 < 330. m-Dichlorobenzene (1,3) < 330. UG/KG 12/02/92 PF-36A-E-10' 92.26692 541731 p-Dichlorobenzene (1,4) UG/KG 12/02/92 PF-36A-E-10' 92.26692 106467 < 330. 3.3'-Dichlorobenzidine PF-36A-E-10' 92.26692 91941 < 330. UG/KG 12/02/92 < 330. UG/KG 12/02/92 2.4-Dichlorophenol PF-36A-E-10' 92.26692 120832 Diethyl phthalate PF-36A-E-10' 92.26692 84662 < 330. UG/KG 12/02/92 Dimethyl phthalate < 330. UG/KG 12/02/92 PF-36A-E-10' 92.26692 131113 UG/KG 12/02/92 2,4-Dimethylphenol < 330. PF-36A-E-10' 92.26692 105679 2,4-Dinitrophenol UG/KG 12/02/92 PF-36A-E-10' 92.26692 51285 < 330. 121142 690. 207. UG/KG 12/02/92 2,4-Dinitrotoluene PF-36A-E-10' 92.26692 < 330. UG/KG 12/02/92 2.6-Dinitrotoluene PF-36A-E-10' 92.26692 606202 Fluoranthene < 330. UG/KG 12/02/92 PF-36A-E-10' 92.26692 206440 12/02/92 Fluorene < 330. UG/KG PF-36A-E-10' 92.26692 86737 UG/KG 12/02/92 Hexachlorobenzene < 330. PF-36A-E-10' 92.26692 118741 Hexachlorobutadiene UG/KG 12/02/92 PF-36A-E-10' 92.26692 87683 < 330. Hexachlorocyclopentadiene 77474 < 330. UG/KG 12/02/92 PF-36A-E-10' 92.26692 UG/KG 12/02/92 Hexachloroethane PF-36A-E-10' 92.26692 67721 < 330. 12/02/92 Indeno[1,2,3-cd]pyrene < 330. UG/KG 193395 PF-36A-E-10' 92.26692 UG/KG 12/02/92 Isophorone < 330. PF-36A-E-10' 92.26692 78591 UG/KG 12/02/92 2-Methyl-4,6-dinitrophenol < 330. PF-36A-E-10' 92.26692 534521 2-Methyinaphthalene 91576 < 330. UG/KG 12/02/92 PF-36A-E-10' 92.26692 < 330. UG/KG 12/02/92 2-Methylphenol PF-36A-E-10' 92.26692 95487 UG/KG 12/02/92 4-Methylphenol < 330. PF-36A-E-10' 92.26692 106445 Naphthalene UG/KG 12/02/92 < 330. PF-36A-E-10' 92.26692 91203 12/02/92 2-Nitroaniline UG/KG < 330. PF-36A-E-10' 92.26692 88744 **3-Nitroaniline** UG/KG 12/02/92 99092 < 330. PF-36A-E-10' 92.26692 **4-Nitroaniline** < 330. UG/KG 12/02/92 PF-36A-E-10' 92.26692 100016 UG/KG 12/02/92 Nitrobenzene 98953 < 330. PF-36A-E-10' 92.26692 2-Nitrophenol UG/KG 12/02/92 < 330. PF-36A-E-10' 92.26692 88755 4-Nitrophenol UG/KG 12/02/92 100027 < 330. PF-36A-E-10' 92.26692 N-Nitrosodi-n-propylamine 12/02/92 621647 < 330. UG/KG PF-36A-E-10' 92.26692 UG/KG 12/02/92 N-Nitrosodimethylamine PF-36A-E-10' 92.26692 62759 < 330. N-Nitrosodiphenylamine

UG/KG

< 330.

02/92

EM-9 ANALYTICAL REPORT

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| ******* EM-9 ANALYTICAL REPORT ************************************ |                  |          |                      |                           |       |                    |         |                        |  |  |
|---------------------------------------------------------------------|------------------|----------|----------------------|---------------------------|-------|--------------------|---------|------------------------|--|--|
| CUSTOMER<br>NUMBER                                                  | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |  |  |
| PF-36A-E-10'                                                        | 92.26692         | 87865    | < 330.               |                           | UG/KG | 12/02/92           |         | Pentachlorophenol      |  |  |
| PF-36A-E-10'                                                        | 92.26692         | 85018    | < 330.               |                           | UG/KG | 12/02/92           |         | Phenanthrene           |  |  |
| PF-36A-E-10'                                                        | 92.26692         | 108952   | < 330.               |                           | UG/KG | 12/02/92           |         | Phenol                 |  |  |
| PF-36A-E-10'                                                        | 92.26692         | 129000   | < 330.               |                           | UG/KG | 12/02/92           |         | Pyrene                 |  |  |
| PF-36A-E-10'                                                        | 92.26692         | 120821   | < 330.               |                           | UG/KG | 12/02/92           |         | 1,2,4-Trichlorobenzene |  |  |
| PF-36A-E-10'                                                        | 92.26692         | 95954    | < 330.               |                           | UG/KG | 12/02/92           |         | 2,4,5-Trichlorophenol  |  |  |
| PF-36A-E-10'                                                        | 92.26692         | 88062    | < 330.               |                           | UG/KG | 12/02/92           |         | 2,4,6-Trichlorophenol  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.26692

none

|                     |                  |             | **                   | ******                    | ** EM-  | 9 ANALYTICAL RE    | PORT ****     | *****            |                   |                  |         |
|---------------------|------------------|-------------|----------------------|---------------------------|---------|--------------------|---------------|------------------|-------------------|------------------|---------|
|                     |                  |             | E                    | PA SEMIVOLATILES          | ; Pre   | pared by: LAK      | c             | on 9-Dec-1992    |                   |                  |         |
| REQUEST NUME        | ER: 13439        | MATRI       | X: SS ANAL           | YST: ANTHONY LO           | MBARDO  |                    | PROGRAM CODE: | : M106 NOTEBOO   | ) <b>K:</b> R7336 | PAGE: 117        |         |
| OWNER: Phil         | ip R. Fres       | quez        | GROUP: EM-8          | MAIL-STOP:                | K490 P  | HONE: 7-0815       | TECHNIQU      | E: GCEC ANALY    | TICAL PRO         | CEDURE: EPA SW-8 | 46 3RD  |
| <u>Customer Sam</u> | nple_Result      | s, Sample # | 92.26693             | Date Collected:           | 8/25/92 | Date Received      | : 8/26/92     | Date Extracted:  | 8/31/92           | Date Analyzed:   | 9/29/92 |
| CUSTOMER<br>NUMBER  | SAMPLE<br>NUMBER | ANALYSIS    | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS   | COMPLETION<br>DATE | COMMENT       | Compound<br>Name |                   |                  |         |
| PF-36A-E-5'         | 92.26693         | 83329       | < 330.               |                           | UG/KG   | 12/02/92           |               | Acenaphthene     |                   |                  |         |
| PF-36A-E-5'         | 92.26693         | 208968      | < 330.               |                           | UG/KG   | 12/02/92           |               | Acenaphthyle     | ne                |                  |         |
| PF-36A-E-5'         | 92.26693         | 62533       | < 330.               |                           | UG/KG   | 12/02/92           |               | Aniline          |                   |                  |         |
| PF-36A-E-5'         | 92.26693         | 120127      | < 330.               |                           | UG/KG   | 12/02/92           |               | Anthracene       |                   |                  |         |
| PF-36A-E-5'         | 92.26693         | 103333      | < 330.               |                           | UG/KG   | 12/02/92           |               | Azobenzene       |                   |                  |         |
| PF-36A-E-5'         | 92.26693         | 92875       | < 330.               |                           | UG/KG   | 12/02/92           |               | m-Benzidine      |                   |                  |         |
| PF-36A-E-5'         | 92.26693         | 56553       | < 330.               |                           | UG/KG   | 12/02/92           |               | Benzo[a]anth     | racene            |                  |         |
| PF-36A-E-5'         | 92.26693         | 50328       | < 330.               |                           | UG/KG   | 12/02/92           |               | Benzo[a]pyre     | ne                |                  |         |
| PF-36A-E-5'         | 92.26693         | 205992      | < 330.               |                           | UG/KG   | 12/02/92           |               | Benzo[b]fluor    | ranthene          |                  |         |
| PF-36A-E-5'         | 92.26693         | 191242      | < 330.               |                           | UG/KG   | 12/02/92           |               | Benzo[g,h,i]     | perylene          |                  |         |
| PF-36A-E-5'         | 92.26693         | 207089      | < 330.               |                           | UG/KG   | 12/02/92           |               | Benzo[k]fluo     | ranthene          |                  |         |
| PF-36A-E-5'         | 92.26693         | 65850       | < 330.               |                           | UG/KG   | 12/02/92           |               | Benzoic acid     |                   |                  |         |
| PF-36A-E-5'         | 92.26693         | 100516      | < 330.               |                           | UG/KG   | 12/02/92           |               | Benzyl alcoh     | ol                |                  |         |
| PF-36A-E-5'         | 92.26693         | 111911      | < 330.               |                           | UG/KG   | 12/02/92           |               | Bis(2-chloro     | ethoxy)met        | hane             |         |
| PF-36A-E-5'         | 92.26693         | 111444      | < 330.               |                           | UG/KG   | 12/02/92           |               | Bis(2-chloro     | ethyl)ethe        | r                |         |
| PF-36A-E-5'         | 92.26693         | 108601      | < 330.               |                           | UG/KG   | 12/02/92           |               | Bis(2-chloro     | isopropyl)        | ether            |         |
| PF-36A-E-5'         | 92.26693         | 117817      | 530.                 | 159.                      | UG/KG   | 12/02/92           |               | Bis(2-ethylh     | exyl)phtha        | late             |         |
| PF-36A-E-5'         | 92.26693         | 101553      | < 330.               |                           | UG/KG   | 12/02/92           |               | 4-Bromopheny     | lphenyl et        | her              |         |
| PF-36A-E-5'         | 92.26693         | 85687       | < 330.               |                           | UG/KG   | 12/02/92           |               | Butyl benzyl     | phthalate         | 2                |         |
| PF-36A-E-5'         | 92.26693         | 59507       | < 330.               |                           | UG/KG   | 12/02/92           |               | 4-Chloro-3-m     | ethylphend        | ot               |         |
| PF-36A-E-5'         | 92.26693         | 106478      | < 330.               |                           | UG/KG   | 12/02/92           |               | 4-Chloroanil     | ine               |                  |         |
| PF-36A-E-5'         | 92.26693         | 91587       | < 330.               |                           | UG/KG   | 12/02/92           |               | 2-Chloronaph     | thalene           |                  |         |
| PF-36A-E-5'         | 92.26693         | 95578       | < 330.               |                           | UG/KG   | 12/02/92           |               | o-Chlorophen     | ol                |                  |         |
| PF-36A-E-5'         | 92.26693         | 7005723     | < 330.               |                           | UG/KG   | 12/02/92           |               | 4-Chlorophen     | ylphenyl e        | ether            |         |
| PF-36A-E-5'         | 92.26693         | 218019      | < 330.               |                           | UG/KG   | 12/02/92           |               | Chrysene         |                   |                  |         |
| PF-36A-             | 92.26693         | 84742       | 1100.                | 330.                      | UG/KG   | 02/92              |               | Di-n-butyl p     | hthalate          |                  |         |
|                     |                  |             |                      |                           |         |                    |               |                  |                   |                  |         |

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### REPORT NUMBER: 16239

PF-36A-E-5' 92.26693

PF-36A-E-5' 92.26693

PF-36A-E-5' 92.26693

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62759

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< 330.

< 330.

< 330.

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|        |      |    |

NALYTICAL REPORT

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| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                          |
|-------------|----------|----------|------------|-------------|-------|------------|---------|-----------------------------------|
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                              |
| PF-36A-E-5' | 92.26693 | 117840   | < 330.     |             | UG/KG | 12/02/92   |         | Di-n-octyl phthalate              |
| PF-36A-E-5' | 92.26693 | 53703    | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzo[a,h]anthracene            |
| PF-36A-E-5' | 92.26693 | 132649   | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzofuran                      |
| PF-36A-E-5' | 92.26693 | 95501    | < 330.     |             | UG/KG | 12/02/92   |         | o-Dichlorobenzene (1,2)           |
| PF-36A-E-5' | 92.26693 | 541731   | < 330.     |             | UG/KG | 12/02/92   |         | m-Dichlorobenzene (1,3)           |
| PF-36A-E-5' | 92.26693 | 106467   | < 330.     |             | UG/KG | 12/02/92   |         | p-Dichlorobenzene (1,4)           |
| PF-36A-E-5' | 92.26693 | 91941    | < 330.     |             | UG/KG | 12/02/92   |         | 3,3'-Dichlorobenzidine            |
| PF-36A-E-5' | 92.26693 | 120832   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dichlorophenol                |
| PF-36A-E-5' | 92.26693 | 84662    | < 330.     |             | UG/KG | 12/02/92   |         | Diethyl phthalate                 |
| PF-36A-E-5' | 92.26693 | 131113   | < 330.     |             | UG/KG | 12/02/92   |         | Dimethyl phthalate                |
| PF-36A-E-5' | 92.26693 | 105679   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dimethylphenol                |
| PF-36A-E-5' | 92.26693 | 51285    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrophenol                 |
| PF-36A-E-5' | 92.26693 | 121142   | 1700.      | 510.        | UG/KG | 12/02/92   |         | 2,4-Dinitrotoluene                |
| PF-36A-E-5' | 92.26693 | 606202   | < 330.     |             | UG/KG | 12/02/92   |         | 2,6-Dinitrotoluene                |
| PF-36A-E-5' | 92.26693 | 206440   | < 330.     |             | UG/KG | 12/02/92   |         | Fluoranthene                      |
| PF-36A-E-5' | 92.26693 | 86737    | < 330.     |             | UG/KG | 12/02/92   |         | Fluorene                          |
| PF-36A-E-5' | 92.26693 | 118741   | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobenzene                 |
| PF-36A-E-5' | 92.26693 | 87683    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobutadiene               |
| PF-36A-E-5' | 92.26693 | 77474    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorocyclopentadiene         |
| PF-36A-E-5' | 92.26693 | 67721    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachloroethane                  |
| PF-36A-E-5' | 92.26693 | 193395   | < 330.     |             | UG/KG | 12/02/92   |         | Indeno[1,2,3-cd]pyrene            |
| PF-36A-E-5' | 92.26693 | 78591    | < 330.     |             | UG/KG | 12/02/92   |         | Isophorone                        |
| PF-36A-E-5' | 92.26693 | 534521   | < 330.     |             | UG/KG | 12/02/92   |         | <b>2-Methyl-4,6-dinitrophenol</b> |
| PF-36A-E-5' | 92.26693 | 91576    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylnaphthalene               |
| PF-36A-E-5' | 92.26693 | 95487    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylphenol                    |
| PF-36A-E-5' | 92.26693 | 106445   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Methylphenol                    |
| PF-36A-E-5' | 92.26693 | 91203    | < 330.     |             | UG/KG | 12/02/92   |         | Naphthalene                       |
| PF-36A-E-5' | 92.26693 | 88744    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitroaniline                    |
| PF-36A-E-5' | 92.26693 | 99092    | < 330.     |             | UG/KG | 12/02/92   |         | 3-Nitroaniline                    |
| PF-36A-E-5' | 92.26693 | 100016   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitroaniline                    |
| PF-36A-E-5' | 92.26693 | 98953    | < 330.     |             | UG/KG | 12/02/92   |         | Nitrobenzene                      |
| PF-36A-E-5' | 92.26693 | 88755    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitrophenol                     |
| PE-36A-E-5/ | 92 26693 | 100027   | < 330,     |             | UG/KG | 12/02/92   |         | 4-Nitrophenol                     |

12/02/92

12/02/92

12/02/92

UG/KG

UG/KG

UG/KG

N-Nitrosodi-n-propylamine

N-Nitrosodimethylamine

N-Nitrosodiphenylamine

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|----------------------------------------|----------|----------|------------|-------------|-------|------------|---------|------------------------|--|--|
| CUSTOMER                               | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | Compound               |  |  |
| NUMBER                                 | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |
| PF-36A-E-5'                            | 92.26693 | 87865    | < 330.     |             | UG/KG | 12/02/92   |         | Pentachlorophenol      |  |  |
| PF-36A-E-5'                            | 92.26693 | 85018    | < 330.     |             | UG/KG | 12/02/92   |         | Phenanthrene           |  |  |
| PF-36A-E-5'                            | 92.26693 | 108952   | < 330.     |             | UG/KG | 12/02/92   |         | Pheno l                |  |  |
| PF-36A-E-5'                            | 92.26693 | 129000   | < 330.     |             | UG/KG | 12/02/92   |         | Pyrene                 |  |  |
| PF-36A-E-5'                            | 92.26693 | 120821   | < 330.     |             | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |
| PF-36A-E-5'                            | 92.26693 | 95954    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |
| PF-36A-E-5'                            | 92.26693 | 88062    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.26693

none

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Page: 55

|                     |            |               | ****         | ****           | ** EM-  | 9 ANALYTICAL REPO | DRT ************************************                |  |
|---------------------|------------|---------------|--------------|----------------|---------|-------------------|---------------------------------------------------------|--|
|                     |            |               | EPA          | SEMIVOLATILES  | Pre     | pared by: LAK     | on 9-Dec-1992                                           |  |
| REQUEST NUMBI       | ER: 13439  | MATRI         | X: SS ANALYS | ST: ANTHONY LO | MBARDO  | PI                | ROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117             |  |
| OWNER: Phil         | ip R. Fres | quez          | GROUP: EM-8  | MAIL-STOP:     | K490 P  | PHONE: 7-0815     | TECHNIQUE: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |  |
| <u>Customer Sam</u> | ple Result | s, Sample #   | 92.26694 Da  | ite Collected: | 8/25/92 | Date Received:    | 8/26/92 Date Extracted: 8/31/92 Date Analyzed: 10/08/92 |  |
| CLISTOMER           | SAMPLE     |               | ANALYTICAL   | ANALYTICAL     |         | COMPLETION        | COMPOUND                                                |  |
| NUMBER              | NUMBER     | ANALYSIS      | RESULT       | UNCERTAINTY    | UNITS   | DATE              | COMMENT NAME                                            |  |
| PF-36A-N-100        | 92.26694   | 83329         | < 330.       |                | UG/KG   | 12/02/92          | Acenaphthene                                            |  |
| PF-36A-N-100        | 92.26694   | 208968        | < 330.       |                | UG/KG   | 12/02/92          | Acenaphthylene                                          |  |
| PF-36A-N-100        | 92.26694   | 62533         | < 330.       |                | UG/KG   | 12/02/92          | Aniline                                                 |  |
| PF-36A-N-100        | 92.26694   | 120127        | < 330.       |                | UG/KG   | 12/02/92          | Anthracene                                              |  |
| PF-36A-N-100        | 92.26694   | 103333        | < 330.       |                | UG/KG   | 12/02/92          | Azobenzene                                              |  |
| PF-36A-N-100        | 92.26694   | 92875         | < 330.       |                | UG/KG   | 12/02/92          | m-Benzidine                                             |  |
| PF-36A-N-100        | 92.26694   | 56553         | < 330.       |                | UG/KG   | 12/02/92          | Benzo[a]anthracene                                      |  |
| PF-36A-N-100        | 92.26694   | 50328         | < 330.       |                | UG/KG   | 12/02/92          | Benzo[a]pyrene                                          |  |
| PF-36A-N-100        | 92.26694   | 205992        | < 330.       |                | UG/KG   | 12/02/92          | Benzo[b]fluoranthene                                    |  |
| PF-36A-N-100        | 92.26694   | 191242        | < 330.       |                | UG/KG   | 12/02/92          | Benzo[g,h,i]perylene                                    |  |
| PF-36A-N-100        | 92.26694   | 207089        | < 330.       |                | UG/KG   | 12/02/92          | Benzo[k]fluoranthene                                    |  |
| PF-36A-N-100        | 92.26694   | 65850         | < 330.       |                | UG/KG   | 12/02/92          | Benzoic acid                                            |  |
| PF-36A-N-100        | 92.26694   | 100516        | < 330.       |                | UG/KG   | 12/02/92          | Benzyl alcohol                                          |  |
| PF-36A-N-100        | 92.26694   | 111911        | < 330.       |                | UG/KG   | 12/02/92          | Bis(2-chloroethoxy)methane                              |  |
| PF-36A-N-100        | 92.26694   | 111444        | < 330.       |                | UG/KG   | 12/02/92          | Bis(2-chloroethyl)ether                                 |  |
| PF-36A-N-100        | 92.26694   | 108601        | < 330.       |                | UG/KG   | 12/02/92          | Bis(2-chloroisopropyl)ether                             |  |
| PF-36A-N-100        | 92.26694   | 117817        | 5600.        | 1680.          | UG/KG   | 12/02/92          | Bis(2-ethylhexyl)phthalate                              |  |
| PF-36A-N-100        | 92.26694   | 101553        | < 330.       |                | UG/KG   | 12/02/92          | 4-Bromophenylphenyl ether                               |  |
| PF-36A-N-100        | 92.26694   | 85687         | < 330.       |                | UG/KG   | 12/02/92          | Butyl benzyl phthalate                                  |  |
| PF-36A-N-100        | 92.26694   | 59507         | < 330.       |                | UG/KG   | 12/02/92          | 4-Chloro-3-methylphenol                                 |  |
| PF-36A-N-100        | 92.26694   | 106478        | < 330.       |                | UG/KG   | 12/02/92          | 4-Chloroaniline                                         |  |
| PF-36A-N-100        | 92.26694   | 91587         | < 330.       |                | UG/KG   | 12/02/92          | 2-Chloronaphthalene                                     |  |
| PF-36A-N-100        | 92.26694   | 9557 <b>8</b> | < 330.       |                | UG/KG   | 12/02/92          | o-Chlorophenol                                          |  |
| PF-36A-N-100        | 92.26694   | 7005723       | < 330.       |                | UG/KG   | 12/02/92          | 4-Chlorophenylphenyl ether                              |  |
| PF-36A-N-100        | 92.26694   | 218019        | < 330.       |                | UG/KG   | 12/02/92          | Chrysene                                                |  |
| PF-36A-N-100        | 92.26694   | 84742         | 4400.        | 1320.          | UG/KG   | 12/02/92          | Di-n-butyl phthalate                                    |  |

CUSTOMER SAMPLE ANALYTICAL ANALYTICAL COMPLETION COMPOUND NUMBER NUMBER ANALYSIS RESULT UNCERTAINTY UNITS DATE COMMENT NAME PF-36A-N-100 92,26694 117840 < 330. UG/KG 12/02/92 Di-n-octyl phthalate PF-36A-N-100 92.26694 53703 < 330. UG/KG 12/02/92 Dibenzo[a,h]anthracene PF-36A-N-100 92.26694 132649 < 330. UG/KG 12/02/92 Dibenzofuran PF-36A-N-100 92.26694 95501 < 330. UG/KG 12/02/92 o-Dichlorobenzene (1.2) PF-36A-N-100 92.26694 541731 < 330. UG/KG 12/02/92 m-Dichlorobenzene (1,3) < 330. PF-36A-N-100 92.26694 106467 UG/KG 12/02/92 p-Dichlorobenzene (1,4) PF-36A-N-100 92.26694 91941 < 330. UG/KG 12/02/92 3,3'-Dichlorobenzidine PF-36A-N-100 92.26694 120832 < 330. UG/KG 12/02/92 2,4-Dichlorophenol PF-36A-N-100 92,26694 84662 < 330. UG/KG 12/02/92 Diethyl phthalate PF-36A-N-100 92,26694 131113 < 330. UG/KG 12/02/92 Dimethyl phthalate 105679 < 330. UG/KG 12/02/92 PF-36A-N-100 92.26694 2.4-Dimethylphenol PF-36A-N-100 92.26694 < 330. UG/KG 12/02/92 51285 2,4-Dinitrophenol PF-36A-N-100 92.26694 121142 4800. 1440. UG/KG 12/02/92 2,4-Dinitrotoluene PF-36A-N-100 92.26694 606202 < 330. UG/KG 12/02/92 2,6-Dinitrotoluene PF-36A-N-100 92.26694 206440 < 330. UG/KG 12/02/92 Fluoranthene PF-36A-N-100 92.26694 86737 < 330. UG/KG 12/02/92 Fluorene < 330. UG/KG 12/02/92 PF-36A-N-100 92.26694 118741 Hexachlorobenzene UG/KG 12/02/92 PF-36A-N-100 92.26694 87683 < 330. Hexachlorobutadiene PF-36A-N-100 92.26694 77474 < 330. UG/KG 12/02/92 Hexachlorocyclopentadiene < 330. UG/KG 12/02/92 PF-36A-N-100 92.26694 67721 Hexachloroethane 12/02/92 PF-36A-N-100 92.26694 193395 < 330. UG/KG Indeno[1,2,3-cd]pyrene < 330. UG/KG 12/02/92 PF-36A-N-100 92.26694 78591 Isophorone UG/KG 12/02/92 PF-36A-N-100 92.26694 534521 < 330. 2-Methyl-4,6-dinitrophenol PF-36A-N-100 92.26694 91576 < 330. UG/KG 12/02/92 2-Methylnaphthalene PF-36A-N-100 92.26694 95487 < 330. UG/KG 12/02/92 2-Methylphenol UG/KG 12/02/92 PF-36A-N-100 92.26694 106445 < 330. 4-Methylphenol 91203 < 330. UG/KG 12/02/92 PF-36A-N-100 92.26694 Naphthalene 88744 < 330. UG/KG 12/02/92 PF-36A-N-100 92.26694 2-Nitroaniline UG/KG 12/02/92 PF-36A-N-100 92.26694 99092 < 330. **3-Nitroaniline** PF-36A-N-100 92.26694 100016 < 330. UG/KG 12/02/92 **4-Nitroaniline** UG/KG 12/02/92 PF-36A-N-100 92.26694 98953 < 330. Nitrobenzene 88755 UG/KG 12/02/92 PF-36A-N-100 92.26694 < 330. 2-Nitrophenol UG/KG 12/02/92 PF-36A-N-100 92.26694 100027 < 330. 4-Nitrophenol 12/02/92 PF-36A-N-100 92.26694 621647 < 330. UG/KG N-Nitrosodi-n-propylamine PF-36A-N-100 92.26694 62759 < 330. UG/KG 12/02/92 N-Nitrosodimethylamine 02/92 PF-36A-5 92.26694 86306 1300. 390. UG/KG N-Nitrosodiphenylamine

EM-9 ANALYTICAL REPORT

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PF-36A-N-100 92.26694

| ************************************** |                  |          |                      |                           |       |                    |         |                   |  |  |
|----------------------------------------|------------------|----------|----------------------|---------------------------|-------|--------------------|---------|-------------------|--|--|
| CUSTOMER<br>NUMBER                     | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME  |  |  |
| PF-36A-N-100                           | 92.26694         | 87865    | < 330.               |                           | UG/KG | 12/02/92           |         | Pentachlorophenol |  |  |
| PF-36A-N-100                           | 92.26694         | 85018    | < 330.               |                           | UG/KG | 12/02/92           |         | Phenanthrene      |  |  |

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| PF-36A-N-100 | 92.26694 | 108952 | < 330. | UG/KG | 12/02/92 | Pheno l                |
|--------------|----------|--------|--------|-------|----------|------------------------|
| PF-36A-N-100 | 92.26694 | 129000 | < 330. | UG/KG | 12/02/92 | Pyrene                 |
| PF-36A-N-100 | 92.26694 | 120821 | < 330. | UG/KG | 12/02/92 | 1,2,4-Trichlorobenzene |
| PF-36A-N-100 | 92.26694 | 95954  | < 330. | UG/KG | 12/02/92 | 2,4,5-Trichlorophenol  |
| PF-36A-N-100 | 92.26694 | 88062  | < 330. | UG/KG | 12/02/92 | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.26694

none

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|                                                                                                         |            |                | **         | *****            | ** EM-  | 9 ANALYTICAL REP | ORT ****  | *********                                      |  |  |  |
|---------------------------------------------------------------------------------------------------------|------------|----------------|------------|------------------|---------|------------------|-----------|------------------------------------------------|--|--|--|
|                                                                                                         |            |                | E          | PA SEMIVOLATILES | 6 Pre   | pared by: LAK    | o         | on 9-Dec-1992                                  |  |  |  |
| REQUEST NUMBER: 13439 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117 |            |                |            |                  |         |                  |           |                                                |  |  |  |
| WNER: Phil                                                                                              | ip R. Fres | squez G        | ROUP: EM-8 | MAIL-STOP:       | K490 P  | HONE: 7-0815     | TECHNIQUE | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |  |  |  |
| ustomer Sam                                                                                             | ple Result | ts, Sample # 9 | 2.26695    | Date Collected:  | 8/25/92 | Date Received:   | 8/26/92   | Date Extracted: 8/31/92 Date Analyzed: 9/29/92 |  |  |  |
| USTOMER                                                                                                 | SAMPLE     |                | ANALYTICAL | ANALYTICAL       |         | COMPLETION       |           | COMPOUND                                       |  |  |  |
| NUMBER                                                                                                  | NUMBER     | ANALYSIS       | RESULT     | UNCERTAINTY      | UNITS   | DATE             | COMMENT   | NAME                                           |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 83329          | < 330.     |                  | UG/KG   | 12/02/92         |           | Acenaphthene                                   |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 208968         | < 330.     |                  | UG/KG   | 12/02/92         |           | Acenaphthylene                                 |  |  |  |
| -36A-N-50'                                                                                              | 92.26695   | 62533          | < 330.     |                  | UG/KG   | 12/02/92         |           | Aniline                                        |  |  |  |
| -36A-N-50'                                                                                              | 92.26695   | 120127         | < 330.     |                  | UG/KG   | 12/02/92         |           | Anthracene                                     |  |  |  |
| -36A-N-50'                                                                                              | 92.26695   | 103333         | < 330.     |                  | UG/KG   | 12/02/92         |           | Azobenzene                                     |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 92875          | < 330.     |                  | UG/KG   | 12/02/92         |           | m-Benzidine                                    |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 56553          | < 330.     |                  | UG/KG   | 12/02/92         |           | Benzo[a]anthracene                             |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 50328          | < 330.     |                  | UG/KG   | 12/02/92         |           | Benzo[a]pyrene                                 |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 205992         | < 330.     |                  | UG/KG   | 12/02/92         |           | Benzo[b]fluoranthene                           |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 191242         | < 330.     |                  | UG/KG   | 12/02/92         |           | Benzo[g,h,i]perylene                           |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 207089         | < 330.     |                  | UG/KG   | 12/02/92         |           | Benzo[k]fluoranthene                           |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 65850          | < 330.     |                  | UG/KG   | 12/02/92         |           | Benzoic acid                                   |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 100516         | < 330.     |                  | UG/KG   | 12/02/92         |           | Benzyl alcohol                                 |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 111911         | < 330.     |                  | UG/KG   | 12/02/92         |           | Bis(2-chloroethoxy)methane                     |  |  |  |
| F-36A-N-50'                                                                                             | 92.26695   | 111444         | < 330.     |                  | UG/KG   | 12/02/92         |           | Bis(2-chloroethyl)ether                        |  |  |  |
| F-36A-N-504                                                                                             | 92.26695   | 108601         | < 330.     |                  | UG/KG   | 12/02/92         |           | Bis(2-chloroisopropyl)ether                    |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 117817         | 1500.      | 450.             | UG/KG   | 12/02/92         |           | Bis(2-ethylhexyl)phthalate                     |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 101553         | < 330.     |                  | UG/KG   | 12/02/92         |           | 4-Bromophenylphenyl ether                      |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 85687          | < 330      |                  | UG/KG   | 12/02/92         |           | Butyl benzyl phthalate                         |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 59507          | < 330.     |                  | UG/KG   | 12/02/92         |           | 4-Chloro-3-methylphenol                        |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 106478         | < 330.     |                  | UG/KG   | 12/02/92         |           | 4-Chloroaniline                                |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 91587          | < 330.     |                  | UG/KG   | 12/02/92         |           | 2-Chloronaphthalene                            |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 95578          | < 330.     |                  | UG/KG   | 12/02/92         |           | o-Chlorophenol                                 |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 7005723        | < 330.     |                  | UG/KG   | 12/02/92         |           | 4-Chlorophenylphenyl ether                     |  |  |  |
| F-36A-N-50                                                                                              | 92.26695   | 218019         | < 330.     |                  | UG/KG   | 12/02/92         |           | Chrysene                                       |  |  |  |
| PF-36A-                                                                                                 | 92.26695   | 84742          | < 330.     |                  | UG/KG   | 02/92            |           | Di-n-butyl phthalate                           |  |  |  |

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PF-36A-N-50' 92.26695

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< 330.

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|              |          |          | ***        | ****        | *** EM- | 9 ANALYTICAL R | EPORT ** | *********                  |
|--------------|----------|----------|------------|-------------|---------|----------------|----------|----------------------------|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |          | COMPOUND                   |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT  | NAME                       |
| PF-36A-N-50' | 92.26695 | 117840   | < 330.     |             | UG/KG   | 12/02/92       |          | Di-n-octyl phthalate       |
| PF-36A-N-50' | 92.26695 | 53703    | < 330.     |             | UG/KG   | 12/02/92       |          | Dibenzo[a,h]anthracene     |
| PF-36A-N-50' | 92.26695 | 132649   | < 330.     |             | UG/KG   | 12/02/92       |          | Dibenzofuran               |
| PF-36A-N-50' | 92.26695 | 95501    | < 330.     |             | UG/KG   | 12/02/92       |          | o-Dichlorobenzene (1,2)    |
| PF-36A-N-50' | 92.26695 | 541731   | < 330.     |             | UG/KG   | 12/02/92       |          | m-Dichlorobenzene (1,3)    |
| PF-36A-N-50' | 92.26695 | 106467   | < 330.     |             | UG/KG   | 12/02/92       |          | p-Dichlorobenzene (1.4)    |
| PF-36A-N-50' | 92.26695 | 91941    | < 330.     |             | UG/KG   | 12/02/92       |          | 3,3'-Dichlorobenzidine     |
| PF-36A-N-50' | 92.26695 | 120832   | < 330.     |             | UG/KG   | 12/02/92       |          | 2,4-Dichlorophenol         |
| PF-36A-N-50' | 92.26695 | 84662    | < 330.     |             | UG/KG   | 12/02/92       |          | Diethyl phthalate          |
| PF-36A-N-50' | 92.26695 | 131113   | < 330.     |             | UG/KG   | 12/02/92       |          | Dimethyl phthalate         |
| PF-36A-N-50' | 92.26695 | 105679   | < 330.     |             | UG/KG   | 12/02/92       |          | 2,4-Dimethylphenol         |
| PF-36A-N-50' | 92.26695 | 51285    | < 330.     |             | UG/KG   | 12/02/92       |          | 2,4-Dinitrophenol          |
| PF-36A-N-50' | 92.26695 | 121142   | < 330.     |             | UG/KG   | 12/02/92       |          | 2,4-Dinitrotoluene         |
| PF-36A-N-50' | 92.26695 | 606202   | < 330.     |             | UG/KG   | 12/02/92       |          | 2,6-Dinitrotoluene         |
| PF-36A-N-50' | 92.26695 | 206440   | < 330.     |             | UG/KG   | 12/02/92       |          | Fluoranthene               |
| PF-36A-N-50' | 92.26695 | 86737    | < 330.     |             | UG/KG   | 12/02/92       |          | Fluorene                   |
| PF-36A-N-50' | 92.26695 | 118741   | < 330.     |             | UG/KG   | 12/02/92       |          | Hexachlorobenzene          |
| PF-36A-N-50' | 92.26695 | 87683    | < 330.     |             | UG/KG   | 12/02/92       |          | Hexachlorobutadiene        |
| PF-36A-N-50' | 92.26695 | 77474    | < 330.     |             | UG/KG   | 12/02/92       |          | Hexachlorocyclopentadiene  |
| PF-36A-N-50' | 92.26695 | 67721    | < 330.     |             | UG/KG   | 12/02/92       |          | Hexachloroethane           |
| PF-36A-N-50' | 92.26695 | 193395   | < 330.     |             | UG/KG   | 12/02/92       |          | Indeno[1,2,3-cd]pyrene     |
| PF-36A-N-50' | 92.26695 | 78591    | < 330.     |             | UG/KG   | 12/02/92       |          | Isophorone                 |
| PF-36A-N-50' | 92.26695 | 534521   | < 330.     |             | UG/KG   | 12/02/92       |          | 2-Methyl-4,6-dinitrophenol |
| PF-36A-N-50' | 92.26695 | 91576    | < 330.     |             | UG/KG   | 12/02/92       |          | 2-Methylnaphthalene        |
| PF-36A-N-50' | 92.26695 | 95487    | < 330.     |             | UG/KG   | 12/02/92       |          | 2-Methylphenol             |
| PF-36A-N-50' | 92.26695 | 106445   | < 330.     |             | UG/KG   | 12/02/92       |          | 4-Methylphenol             |
| PF-36A-N-50' | 92.26695 | 91203    | < 330.     |             | UG/KG   | 12/02/92       |          | Naphthalene                |
| PF-36A-N-50' | 92.26695 | 88744    | < 330.     |             | UG/KG   | 12/02/92       |          | 2-Nitroaniline             |
| PF-36A-N-50' | 92.26695 | 99092    | < 330.     |             | UG/KG   | 12/02/92       |          | 3-Nitroaniline             |
| PF-36A-N-50' | 92.26695 | 100016   | < 330.     |             | UG/KG   | 12/02/92       |          | 4-Nitroaniline             |
| PF-36A-N-50' | 92.26695 | 98953    | < 330.     |             | UG/KG   | 12/02/92       |          | Nitrobenzene               |
| PF-36A-N-50' | 92.26695 | 88755    | < 330.     |             | UG/KG   | 12/02/92       |          | 2-Nitrophenol              |
| PF-36A-N-50' | 92.26695 | 100027   | < 330.     |             | UG/KG   | 12/02/92       |          | 4-Nitrophenol              |
| PF-36A-N-50' | 92.26695 | 621647   | < 330.     |             | UG/KG   | 12/02/92       |          | N-Nitrosodi-n-propylamine  |
| PF-36A-N-50' | 92.26695 | 62759    | < 330.     |             | UG/KG   | 12/02/92       |          | N-Nitrosodimethylamine     |

12/02/92

UG/KG

N-Nitrosodiphenylamine

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1. No. 1.

|                    |                  |          | ***                  | ******                    | ******** EM-9 ANALYTICAL REPORT ************************************ |                    |         |                        |  |  |
|--------------------|------------------|----------|----------------------|---------------------------|----------------------------------------------------------------------|--------------------|---------|------------------------|--|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS                                                                | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |  |  |
| PF-36A-N-50'       | 92.26695         | 87865    | < 330.               |                           | UG/KG                                                                | 12/02/92           |         | Pentachlorophenol      |  |  |
| PF-36A-N-50'       | 92.26695         | 85018    | < 330.               |                           | UG/KG                                                                | 12/02/92           |         | Phenanthrene           |  |  |
| PF-36A-N-50'       | 92.26695         | 108952   | < 330.               |                           | UG/KG                                                                | 12/02/92           |         | Pheno l                |  |  |
| PF-36A-N-50'       | 92.26695         | 129000   | < 330.               |                           | UG/KG                                                                | 12/02/92           |         | Pyrene                 |  |  |
| PF-36A-N-50'       | 92.26695         | 120821   | < 330.               |                           | UG/KG                                                                | 12/02/92           |         | 1,2,4-Trichlorobenzene |  |  |
| PF-36A-N-50'       | 92.26695         | 95954    | < 330.               |                           | UG/KG                                                                | 12/02/92           |         | 2,4,5-Trichlorophenol  |  |  |
| PF-36A-N-50'       | 92.26695         | 88062    | < 330.               |                           | UG/KG                                                                | 12/02/92           |         | 2,4,6-Trichlorophenol  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.26695

none



|                                                                                                         |            |             | ***               | *******         | ** EM-  | 9 ANALYTICAL REP | PORT ***** | *******                                         |  |  |  |
|---------------------------------------------------------------------------------------------------------|------------|-------------|-------------------|-----------------|---------|------------------|------------|-------------------------------------------------|--|--|--|
|                                                                                                         |            |             | EP                | A SEMIVOLATILES | s Pre   | pared by: LAK    | on         | 9-Dec-1992                                      |  |  |  |
| REQUEST NUMBER: 13439 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117 |            |             |                   |                 |         |                  |            |                                                 |  |  |  |
| OWNER: Phil                                                                                             | ip R. Fres | squez       | GROUP: EM-8       | MAIL-STOP:      | K490 F  | PHONE: 7-0815    | TECHNIQUE: | GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD       |  |  |  |
| <u>Customer Sam</u>                                                                                     | ple Result | ts, Sample≇ | <u>92.26696</u> D | ate Collected:  | 8/25/92 | Date Received:   | 8/26/92    | Date Extracted: 8/31/92 Date Analyzed: 10/08/92 |  |  |  |
| CUSTOMER                                                                                                | SAMPLE     |             | ANALYTICAL        | ANALYTICAL      |         | COMPLETION       |            | COMPOLIND                                       |  |  |  |
| NUMBER                                                                                                  | NUMBER     | ANALYSIS    | RESULT            | UNCERTAINTY     | UNITS   | DATE             | COMMENT    | NAME                                            |  |  |  |
|                                                                                                         |            |             |                   |                 |         |                  |            |                                                 |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 83329       | < 330.            |                 | UG/KG   | 12/02/92         |            | Acenaphthene                                    |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 208968      | < 330.            |                 | UG/KG   | 12/02/92         |            | Acenaphthylene                                  |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 62533       | < 330.            |                 | UG/KG   | 12/02/92         |            | Aniline                                         |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 120127      | < 330.            |                 | UG/KG   | 12/02/92         |            | Anthracene                                      |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 103333      | < 330.            |                 | UG/KG   | 12/02/92         |            | Azobenzene                                      |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 92875       | < 330.            |                 | UG/KG   | 12/02/92         |            | m-Benzidine                                     |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 56553       | < 330.            |                 | UG/KG   | 12/02/92         |            | Benzo[a]anthracene                              |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 50328       | < 330.            |                 | UG/KG   | 12/02/92         |            | Benzo[a]pyrene                                  |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 205992      | < 330.            |                 | UG/KG   | 12/02/92         |            | Benzo[b]fluoranthene                            |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 191242      | < 330.            |                 | UG/KG   | 12/02/92         |            | Benzo[g,h,i]perylene                            |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 207089      | < 330.            |                 | UG/KG   | 12/02/92         |            | Benzo[k]fluoranthene                            |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 65850       | < 330.            |                 | UG/KG   | 12/02/92         |            | Benzoic acid                                    |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 100516      | < 330.            |                 | UG/KG   | 12/02/92         |            | Benzyl alcohol                                  |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 111911      | < 330.            |                 | UG/KG   | 12/02/92         |            | Bis(2-chloroethoxy)methane                      |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 111444      | < 330.            |                 | UG/KG   | 12/02/92         |            | Bis(2-chloroethyl)ether                         |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 108601      | < 330.            |                 | UG/KG   | 12/02/92         |            | Bis(2-chloroisopropyl)ether                     |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 117817      | < 330.            |                 | UG/KG   | 12/02/92         |            | Bis(2-ethylhexyl)phthalate                      |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 101553      | < 330.            |                 | UG/KG   | 12/02/92         |            | 4-Bromophenylphenyl ether                       |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 85687       | < 330.            |                 | UG/KG   | 12/02/92         |            | Butyl benzyl phthalate                          |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 59507       | < 330.            |                 | UG/KG   | 12/02/92         |            | 4-Chloro-3-methylphenol                         |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 106478      | < 330.            |                 | UG/KG   | 12/02/92         |            | 4-Chloroaniline                                 |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 91587       | < 330.            |                 | UG/KG   | 12/02/92         |            | 2-Chloronaphthalene                             |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 95578       | < 330.            |                 | UG/KG   | 12/02/92         |            | o-Chlorophenol                                  |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 7005723     | < 330.            |                 | UG/KG   | 12/02/92         |            | 4-Chlorophenylphenyl ether                      |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 218019      | < 330.            |                 | UG/KG   | 12/02/92         |            | Chrysene                                        |  |  |  |
| PF-36A-N-25'                                                                                            | 92.26696   | 84742       | < 330.            |                 | UG/KG   | 12/02/92         |            | Di-n-butyl phthalate                            |  |  |  |

COMPOUND ANALYTICAL COMPLETION ANALYTICAL CUSTOMER SAMPLE UNITS DATE COMMENT NAME UNCERTAINTY NUMBER ANALYSIS RESULT NUMBER UG/KG 12/02/92 Di-n-octyl phthalate PF-36A-N-25' 92.26696 117840 < 330. Dibenzo[a,h]anthracene 12/02/92 PF-36A-N-25' 92.26696 53703 < 330. UG/KG Dibenzofuran UG/KG 12/02/92 < 330. PF-36A-N-25' 92.26696 132649 12/02/92 o-Dichlorobenzene (1.2) UG/KG < 330. PF-36A-N-25' 92.26696 95501 m-Dichlorobenzene (1,3) 12/02/92 UG/KG < 330. PF-36A-N-25' 92.26696 541731 p-Dichlorobenzene (1,4) UG/KG 12/02/92 PF-36A-N-25' 92.26696 106467 < 330. 3.3'-Dichlorobenzidine 12/02/92 < 330. UG/KG PF-36A-N-25' 92.26696 91941 2,4-Dichlorophenol UG/KG 12/02/92 120832 < 330. PF-36A-N-25' 92.26696 12/02/92 Diethyl phthalate < 330. UG/KG PF-36A-N-25' 92.26696 84662 Dimethyl phthalate UG/KG 12/02/92 < 330. PF-36A-N-25' 92.26696 131113 2,4-Dimethylphenol UG/KG 12/02/92 PF-36A-N-25' 92.26696 105679 < 330. 12/02/92 2.4-Dinitrophenol UG/KG 51285 < 330. PF-36A-N-25' 92.26696 2,4-Dinitrotoluene < 330. UG/KG 12/02/92 PF-36A-N-25' 92.26696 121142 2.6-Dinitrotoluene UG/KG 12/02/92 < 330. 606202 PF-36A-N-25' 92.26696 UG/KG 12/02/92 Fluoranthene < 330. 206440 PF-36A-N-25' 92.26696 Fluorene UG/KG 12/02/92 < 330. PF-36A-N-25' 92.26696 86737 Hexachlorobenzene UG/KG 12/02/92 PF-36A-N-25' 92.26696 118741 < 330. 12/02/92 Hexachlorobutadiene UG/KG < 330. PF-36A-N-25' 92.26696 87683 Hexachlorocyclopentadiene 12/02/92 < 330. UG/KG 77474 PF-36A-N-25' 92.26696 Hexachloroethane UG/KG 12/02/92 < 330. 67721 PF-36A-N-25' 92.26696 UG/KG 12/02/92 Indeno[1,2,3-cd]pyrene < 330. 193395 PF-36A-N-25' 92.26696 Isophorone UG/KG 12/02/92 < 330. PF-36A-N-25' 92.26696 78591 2-Methyl-4,6-dinitrophenol UG/KG 12/02/92 534521 < 330. PF-36A-N-25' 92.26696 2-Methylnaphthalene UG/KG 12/02/92 < 330. PF-36A-N-25' 92.26696 91576 2-Methylphenol UG/KG 12/02/92 < 330. 95487 PF-36A-N-25' 92.26696 UG/KG 12/02/92 4-Methylphenol < 330. PF-36A-N-25' 92.26696 106445 12/02/92 Naphthalene UG/KG 91203 < 330. PF-36A-N-25' 92.26696 2-Nitroaniline 12/02/92 UG/KG 88744 < 330. PF-36A-N-25' 92.26696 3-Nitroaniline 12/02/92 UG/KG < 330. PF-36A-N-25' 92.26696 99092 4-Nitroaniline 12/02/92 UG/KG < 330. 100016 PF-36A-N-25' 92.26696 Nitrobenzene UG/KG 12/02/92 < 330. PF-36A-N-25' 92.26696 98953 2-Nitrophenol UG/KG 12/02/92 88755 < 330. PF-36A-N-25' 92.26696 12/02/92 4-Nitrophenol UG/KG < 330. 100027 PF-36A-N-25' 92.26696 N-Nitrosodi-n-propylamine

UG/KG

UG/KG

UG/KG

< 330.

< 330.

< 330.

621647

62759

86306

12/02/92

12/02/92

12/92

EM-9 ANALYTICAL REPORT

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N-Nitrosodimethylamine

N-Nitrosodiphenylamine

PF-36A-F

PF-36A-N-25' 92.26696

PF-36A-N-25' 92.26696

92.26696

1 k

|              |          |          | *********************** EM-9 ANALYTICAL REPORT ************************************ |             |       |            |         |                        |  |  |  |
|--------------|----------|----------|-------------------------------------------------------------------------------------|-------------|-------|------------|---------|------------------------|--|--|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL                                                                          | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT                                                                              | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |  |
| PF-36A-N-25' | 92.26696 | 87865    | < 330.                                                                              |             | UG/KG | 12/02/92   |         | Pentachlorophenol      |  |  |  |
| PF-36A-N-25' | 92.26696 | 85018    | < 330.                                                                              |             | UG/KG | 12/02/92   |         | Phenanthrene           |  |  |  |
| PF-36A-N-25' | 92.26696 | 108952   | < 330.                                                                              |             | UG/KG | 12/02/92   |         | Pheno l                |  |  |  |
| PF-36A-N-25' | 92.26696 | 129000   | < 330.                                                                              |             | UG/KG | 12/02/92   |         | Pyrene                 |  |  |  |
| PF-36A-N-25' | 92.26696 | 120821   | < 330.                                                                              |             | UG/KG | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |  |
| PF-36A-N-25' | 92.26696 | 95954    | < 330.                                                                              |             | UG/KG | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |  |
| PF-36A-N-25' | 92.26696 | 88062    | < 330.                                                                              |             | UG/KG | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.26696

none

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|                                                                                                         |             |               | ***                | ****            | ** EM-     | 9 ANALYTICAL REPO | )RT ****  | ******                                         |  |  |  |
|---------------------------------------------------------------------------------------------------------|-------------|---------------|--------------------|-----------------|------------|-------------------|-----------|------------------------------------------------|--|--|--|
|                                                                                                         |             |               | EP                 | A SEMIVOLATILES | Pre        | pared by: LAK     | o         | on 9-Dec-1992                                  |  |  |  |
| REQUEST NUMBER: 13439 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117 |             |               |                    |                 |            |                   |           |                                                |  |  |  |
| WNER: Phil                                                                                              | lip R. Fres | quez (        | GROUP: EM-8        | MAIL-STOP:      | K490 P     | HONE: 7-0815      | TECHNIQUE | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |  |  |  |
| ustomer Sam                                                                                             | mple Result | s, Sample # 9 | 9 <u>2.26697</u> D | ate Collected:  | 8/25/92    | Date Received:    | 8/26/92   | Date Extracted: 9/03/92 Date Analyzed: 9/24/92 |  |  |  |
| USTOMER                                                                                                 | SAMPLE      |               | ANALYTICAL         | ANALYTICAL      |            | COMPLETION        |           | COMPOUND                                       |  |  |  |
| NUMBER                                                                                                  | NUMBER      | ANALYSIS      | RESULT             | UNCERTAINTY     | UNITS      | DATE              | COMMENT   | NAME                                           |  |  |  |
|                                                                                                         | D 02 26607  | 83330         | ~ 330              |                 |            | 12/02/02          |           | Acenantthene                                   |  |  |  |
| F-36A-N-10                                                                                              | R 92.2009/  | 208968        | < 330.             |                 | UG/KG      | 12/02/92          |           | Acenaphthylene                                 |  |  |  |
| F-364-N-10                                                                                              | P 92 26697  | 62533         | < 330.             |                 | UG/KG      | 12/02/92          |           | Aniline                                        |  |  |  |
| F-364-N-10                                                                                              | R 92.26697  | 120127        | < 330.             |                 | UG/KG      | 12/02/92          |           | Anthracene                                     |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 103333        | < 330.             |                 | UG/KG      | 12/02/92          |           | Azobenzene                                     |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 92875         | < 330.             |                 | UG/KG      | 12/02/92          |           | m-Benzidine                                    |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 56553         | < 330.             |                 | UG/KG      | 12/02/92          |           | Benzo[a]anthracene                             |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 50328         | < 330.             |                 | UG/KG      | 12/02/92          |           | Benzo[a]pyrene                                 |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 205992        | < 330.             |                 | ,<br>UG/KG | 12/02/92          |           | Benzo[b]fluoranthene                           |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 191242        | < 330.             |                 | ,<br>UG/KG | 12/02/92          |           | <pre>Benzo[g,h,i]perylene</pre>                |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 207089        | < 330.             |                 | UG/KG      | 12/02/92          |           | Benzo[k]fluoranthene                           |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 65850         | < 330.             |                 | UG/KG      | 12/02/92          |           | Benzoic acid                                   |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 100516        | < 330.             |                 | UG/KG      | 12/02/92          |           | Benzyl alcohol                                 |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 111911        | < 330.             |                 | UG/KG      | 12/02/92          |           | Bis(2-chloroethoxy)methane                     |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 111444        | < 330.             |                 | UG/KG      | 12/02/92          |           | Bis(2-chloroethyl)ether                        |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 108601        | < 330.             |                 | UG/KG      | 12/02/92          |           | Bis(2-chloroisopropyl)ether                    |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 117817        | 550.               | 165.            | UG/KG      | 12/02/92          |           | Bis(2-ethylhexyl)phthalate                     |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 101553        | < 330.             |                 | UG/KG      | 12/02/92          |           | 4-Bromophenylphenyl ether                      |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 85687         | < 330.             |                 | UG/KG      | 12/02/92          |           | Butyl benzył phthalate                         |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 59507         | < 330.             |                 | UG/KG      | 12/02/92          |           | 4-Chloro-3-methylphenol                        |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 106478        | < 330.             |                 | UG/KG      | 12/02/92          |           | 4-Chloroaniline                                |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 91587         | < 330.             |                 | UG/KG      | <b>12/02/92</b>   |           | 2-Chloronaphthalene                            |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 95578         | < 330.             |                 | UG/KG      | 12/02/92          |           | o-Chlorophenol                                 |  |  |  |
| F-36A-N-10                                                                                              | R 92.26697  | 7005723       | < 330.             |                 | UG/KG      | 12/02/92          |           | 4-Chlorophenylphenyl ether                     |  |  |  |
| PF-36A-N-10                                                                                             | R 92.26697  | 218019        | < 330.             |                 | UG/KG      | 12/02/92          |           | Chrysene                                       |  |  |  |
| PF-36A-                                                                                                 | 92.26697    | 84742         | < 330.             |                 | UG/KG      | ຳ2/92             |           | Di-n-butyl phthalate 👔                         |  |  |  |
|                                                                                                         |             |               |                    |                 |            |                   |           |                                                |  |  |  |

PF-36A-N-10R 92.26697

PF-36A-N-10R 92.26697

PF-36A-N-10R 92.26697

CUSTOMER SAMPLE ANALYTICAL ANALYTICAL COMPLETION COMPOUND NUMBER NUMBER ANALYSIS RESULT UNCERTAINTY UNITS DATE COMMENT NAME PF-36A-N-10R 92,26697 117840 < 330. UG/KG 12/02/92 Di-n-octyl phthalate < 330. PF-36A-N-10R 92,26697 53703 UG/KG 12/02/92 Dibenzo[a,h]anthracene PF-36A-N-10R 92,26697 132649 < 330. UG/KG 12/02/92 Dibenzofuran < 330. UG/KG PF-36A-N-10R 92.26697 95501 12/02/92 o-Dichlorobenzene (1.2) < 330. PF-36A-N-10R 92,26697 541731 UG/KG 12/02/92 m-Dichlorobenzene (1,3) PF-36A-N-10R 92.26697 106467 < 330. UG/KG 12/02/92 p-Dichlorobenzene (1,4) PF-36A-N-10R 92.26697 < 330. UG/KG 91941 12/02/92 3,3'-Dichlorobenzidine PF-36A-N-10R 92.26697 120832 < 330. UG/KG 12/02/92 2,4-Dichlorophenol < 330. UG/KG PF-36A-N-10R 92.26697 84662 12/02/92 Diethyl phthalate < 330. UG/KG PF-36A-N-10R 92.26697 131113 12/02/92 Dimethyl phthalate PF-36A-N-10R 92.26697 105679 < 330. UG/KG 12/02/92 2,4-Dimethylphenol < 330. PF-36A-N-10R 92.26697 51285 UG/KG 12/02/92 2,4-Dinitrophenol PF-36A-N-10R 92.26697 121142 < 330. UG/KG 12/02/92 2,4-Dinitrotoluene PF-36A-N-10R 92.26697 606202 < 330. UG/KG 12/02/92 2.6-Dinitrotoluene < 330. UG/KG PF-36A-N-10R 92.26697 206440 12/02/92 Fluoranthene 86737 < 330. UG/KG PF-36A-N-10R 92.26697 12/02/92 Fluorene PF-36A-N-10R 92.26697 118741 < 330. UG/KG 12/02/92 **Hexachlorobenzene** PF-36A-N-10R 92.26697 87683 < 330. UG/KG 12/02/92 **Hexachlorobutadiene** PF-36A-N-10R 92.26697 77474 < 330. UG/KG 12/02/92 Hexachlorocyclopentadiene PF-36A-N-10R 92.26697 67721 < 330. UG/KG 12/02/92 Hexachloroethane < 330. UG/KG PF-36A-N-10R 92.26697 193395 12/02/92 Indeno[1,2,3-cd]pyrene 78591 < 330. UG/KG 12/02/92 PF-36A-N-10R 92.26697 Isophorone < 330. UG/KG 12/02/92 PF-36A-N-10R 92.26697 534521 2-Methyl-4,6-dinitrophenol < 330. UG/KG PF-36A-N-10R 92,26697 91576 12/02/92 2-Methylnaphthalene PF-36A-N-10R 92,26697 95487 < 330. UG/KG 12/02/92 2-Methylphenol < 330. UG/KG 12/02/92 PF-36A-N-10R 92.26697 106445 4-Methylphenol PF-36A-N-10R 92.26697 91203 < 330. UG/KG 12/02/92 Naphthalene UG/KG PF-36A-N-10R 92.26697 88744 < 330. 12/02/92 2-Nitroaniline < 330. UG/KG 12/02/92 3-Nitroaniline PF-36A-N-10R 92.26697 99092 PF-36A-N-10R 92.26697 100016 < 330. UG/KG 12/02/92 4-Nitroaniline < 330. UG/KG 12/02/92 PF-36A-N-10R 92.26697 98953 Nitrobenzene 88755 < 330. UG/KG 12/02/92 2-Nitrophenol PF-36A-N-10R 92.26697 UG/KG < 330. 12/02/92 PF-36A-N-10R 92.26697 100027 4-Nitrophenol

UG/KG

UG/KG

UG/KG

12/02/92

12/02/92

12/02/92

f. 's

**EM-9 ANALYTICAL REPORT** 

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N-Nitrosodi-n-propylamine

N-Nitrosodimethylamine

N-Nitrosodiphenylamine

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< 330.

< 330.

< 330.

621647

62759

March -

|                    |                  |          | ***                  | ******                    | *** EM- | 9 ANALYTICAL R     | eport * | **********             |
|--------------------|------------------|----------|----------------------|---------------------------|---------|--------------------|---------|------------------------|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS   | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |
| PF-36A-N-10R       | 92.26697         | 87865    | < 330.               |                           | UG/KG   | 12/02/92           |         | Pentachlorophenol      |
| PF-36A-N-10R       | 92.26697         | 85018    | < 330.               |                           | UG/KG   | 12/02/92           |         | Phenanthrene           |
| PF-36A-N-10R       | 92.26697         | 108952   | < 330.               |                           | UG/KG   | 12/02/92           |         | Pheno l                |
| PF-36A-N-10R       | 92.26697         | 129000   | < 330.               |                           | UG/KG   | 12/02/92           |         | Pyrene                 |
| PF-36A-N-10R       | 92.26697         | 120821   | < 330.               |                           | UG/KG   | 12/02/92           |         | 1,2,4-Trichlorobenzene |
| PF-36A-N-10R       | 92.26697         | 95954    | < 330.               |                           | UG/KG   | 12/02/92           |         | 2,4,5-Trichlorophenol  |
| PF-36A-N-10R       | 92.26697         | 88062    | < 330.               |                           | UG/KG   | 12/02/92           |         | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.26697

none

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|                     |             |              | **1         | *******         | *** EM- | 9 ANALYTICAL REPO | ORT ****     | *****                                           |
|---------------------|-------------|--------------|-------------|-----------------|---------|-------------------|--------------|-------------------------------------------------|
|                     |             |              | EF          | A SEMIVOLATILES | 6 Pre   | pared by: LAK     | o            | on 9-Dec-1992                                   |
| REQUEST NUME        | BER: 13439  | ) MATRI      | X: SS ANALY | ST: ANTHONY LO  | MBARDO  | PI                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 117                  |
| OWNER: Phil         | lip R. Fres | squez        | GROUP: EM-8 | MAIL-STOP:      | K490 P  | HONE: 7-0815      | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |
| <u>Customer Sam</u> | nple Result | ts, Sample # | 92.26698    | ate Collected:  | 8/25/92 | Date Received:    | 8/26/92      | Date Extracted: 9/03/92 Date Analyzed: 10/07/92 |
| CUSTOMER            | SAMPLE      |              | ANALYTICAL  | ANALYTICAL      |         | COMPLETION        |              | COMPOUND                                        |
| NUMBER              | NUMBER      | ANALYSIS     | RESULT      | UNCERTAINTY     | UNITS   | DATE              | COMMENT      | NAME                                            |
| DE 264 N.104        | 02 25500    | 03300        | . 330       |                 |         | 10 (00 (00        |              |                                                 |
| PF-36A-N-10         | 92.20098    | 83329        | < 330.      |                 | 0G/KG   | 12/02/92          |              | Acenaphthene                                    |
| PF-364-N-10         | 92.20090    | 62533        | < 330.      |                 |         | 12/02/92          |              | Acenaphthylene                                  |
| PF-364-N-10         | 92.20090    | 120127       | < 330.      |                 |         | 12/02/92          |              | Antine                                          |
| PE-36A-N-10         | 92.26698    | 103333       | < 330       |                 |         | 12/02/92          |              | Anthracene                                      |
| PF-36A-N-10         | 92.26698    | 92875        | < 330.      |                 | UG/KG   | 12/02/92          |              | m-Benzidine                                     |
| PF-36A-N-10         | 92,26698    | 56553        | < 330.      |                 | UG/KG   | 12/02/92          |              | M Denz (a) anthracana                           |
| PF-36A-N-104        | 92.26698    | 50328        | < 330.      |                 | UG/KG   | 12/02/92          |              | Renzo[a] nvrene                                 |
| PF-36A-N-10         | 92.26698    | 205992       | < 330.      |                 | UG/KG   | 12/02/92          |              | Benzo[b]fluoranthene                            |
| PF-36A-N-104        | 92.26698    | 191242       | < 330.      |                 | UG/KG   | 12/02/92          |              | Benzo[a,h,i]pervlene                            |
| PF-36A-N-10         | 92.26698    | 207089       | < 330.      |                 | UG/KG   | 12/02/92          |              | Benzo[k]fluoranthene                            |
| PF-36A-N-10         | 92.26698    | 65850        | < 330.      |                 | UG/KG   | 12/02/92          |              | Benzoic acid                                    |
| PF-36A-N-10         | 92.26698    | 100516       | < 330.      |                 | UG/KG   | 12/02/92          |              | Benzyl alcohol                                  |
| PF-36A-N-10         | 92.26698    | 111911       | < 330.      |                 | UG/KG   | 12/02/92          |              | Bis(2-chloroethoxy)methane                      |
| PF-36A-N-10         | 92.26698    | 111444       | < 330.      |                 | UG/KG   | 12/02/92          |              | Bis(2-chloroethyl)ether                         |
| PF-36A-N-10         | 92.26698    | 108601       | < 330.      |                 | UG/KG   | 12/02/92          |              | Bis(2-chloroisopropyl)ether                     |
| PF-36A-N-10         | 92.26698    | 117817       | < 330.      |                 | UG/KG   | 12/02/92          |              | Bis(2-ethylhexyl)phthalate                      |
| PF-36A-N-10         | 92.26698    | 101553       | < 330.      |                 | UG/KG   | 12/02/92          |              | 4-Bromophenylphenyl ether                       |
| PF-36A-N-10         | 92.26698    | 85687        | < 330.      |                 | UG/KG   | 12/02/92          |              | Butyl benzyl phthalate                          |
| PF-36A-N-10         | 92.26698    | 59507        | < 330.      |                 | UG/KG   | 12/02/92          |              | 4-Chloro-3-methylphenol                         |
| PF-36A-N-104        | 92.26698    | 106478       | < 330.      |                 | UG/KG   | 12/02/92          |              | 4-Chloroaniline                                 |
| PF-36A-N-10'        | 92.26698    | 91587        | < 330.      |                 | UG/KG   | 12/02/92          |              | 2-Chloronaphthalene                             |
| PF-36A-N-10'        | 92.26698    | 95578        | < 330.      |                 | UG/KG   | 12/02/92          |              | o-Chlorophenol                                  |
| PF-36A-N-10         | 92.26698    | 7005723      | < 330.      |                 | UG/KG   | 12/02/92          |              | 4-Chlorophenylphenyl ether                      |
| PF-36A-N-10'        | 92.26698    | 218019       | < 330.      |                 | UG/KG   | 12/02/92          |              | Chrysene                                        |
| PF-36A-N-10'        | 92.26698    | 84742        | < 330.      |                 | UG/KG   | 12/02/92          |              | Di-n-butyl phthalate                            |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* EM-9 ANALYTICAL REPORT

| CUSTOMER     | SAMPLE                |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |              |
|--------------|-----------------------|----------|------------|-------------|-------|------------|---------|----------------------------|--------------|
| NUMBER       | NUMBER                | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |              |
|              |                       |          |            |             |       |            |         |                            |              |
| PF-36A-N-10' | 92.26698              | 117840   | < 330.     |             | UG/KG | 12/02/92   |         | Di-n-octyl phthalate       |              |
| PF-36A-N-10' | 92.26698              | 53703    | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzo[a,h]anthracene     |              |
| PF-36A-N-10' | 92.26698              | 132649   | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzofuran               |              |
| PF-36A-N-10' | 92.26698              | 95501    | < 330.     |             | UG/KG | 12/02/92   |         | o-Dichlorobenzene (1,2)    |              |
| PF-36A-N-10' | 92.26698              | 541731   | < 330.     |             | UG/KG | 12/02/92   |         | m-Dichlorobenzene (1,3)    |              |
| PF-36A-N-10' | 92.26698              | 106467   | < 330.     |             | UG/KG | 12/02/92   |         | p-Dichlorobenzene (1,4)    |              |
| PF-36A-N-10' | 92.26698              | 91941    | < 330.     |             | UG/KG | 12/02/92   |         | 3,3'-Dichlorobenzidine     |              |
| PF-36A-N-10' | 92.26698              | 120832   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dichlorophenol         |              |
| PF-36A-N-10' | 92.26698              | 84662    | < 330.     |             | UG/KG | 12/02/92   |         | Diethyl phthalate          |              |
| PF-36A-N-10' | 92.26698              | 131113   | < 330.     |             | UG/KG | 12/02/92   |         | Dimethyl phthalate         |              |
| PF-36A-N-10' | 92.26698              | 105679   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dimethylphenol         |              |
| PF-36A-N-10' | 92.26698              | 51285    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrophenol          |              |
| PF-36A-N-10' | 92.26698              | 121142   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrotoluene         |              |
| PF-36A-N-10  | 92.26698              | 606202   | < 330.     |             | UG/KG | 12/02/92   |         | 2,6-Dinitrotoluene         |              |
| PF-36A-N-10  | 92.26698              | 206440   | < 330.     |             | UG/KG | 12/02/92   |         | Fluoranthene               |              |
| PF-36A-N-10  | 92.26698              | 86737    | < 330.     |             | UG/KG | 12/02/92   |         | Fluorene                   |              |
| PF-36A-N-10  | 92.26698              | 118741   | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobenzene          |              |
| PF-36A-N-10  | 92.26698              | 87683    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobutadiene        |              |
| PF-36A-N-10  | 92.26698              | 77474    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorocyclopentadiene  |              |
| PF-36A-N-10  | 92.26698              | 67721    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachloroethane           |              |
| PF-36A-N-10  | 92.26698              | 193395   | < 330.     |             | UG/KG | 12/02/92   |         | Indeno[1,2,3-cd]pyrene     |              |
| PF-36A-N-10  | 92.26698              | 78591    | < 330.     |             | UG/KG | 12/02/92   |         | Isophorone                 |              |
| PF-36A-N-10  | 92.26698              | 534521   | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methyl-4,6-dinitrophenol |              |
| PF-36A-N-10  | <sup>,</sup> 92.26698 | 91576    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylnaphthalene        |              |
| PF-36A-N-10  | · 92.26698            | 95487    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylphenol             |              |
| PF-36A-N-10  | · 92.26698            | 106445   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Methylphenol             |              |
| PF-36A-N-10  | 92.26698              | 91203    | < 330.     |             | UG/KG | 12/02/92   |         | Naphthalene                |              |
| PF-36A-N-10  | 92.26698              | 88744    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitroaniline             |              |
| PF-36A-N-10  | 92.26698              | 99092    | < 330.     |             | UG/KG | 12/02/92   |         | 3-Nitroaniline             |              |
| PF-36A-N-10  | 92.26698              | 100016   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitroaniline             |              |
| PF-36A-N-10  | 92.26698              | 98953    | < 330.     |             | UG/KG | 12/02/92   |         | Nitrobenzene               |              |
| PF-36A-N-10  | 92.26698              | 88755    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitrophenol              |              |
| PF-36A-N-10  | 92.26698              | 100027   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitrophenol              |              |
| PF-36A-N-10  | 92.26698              | 621647   | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodi-n-propylamine  |              |
| PF-36A-N-10  | 92.26698              | 62759    | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodimethylamine     |              |
| PF-36A-      | 92.26698              | 86306    | < 330.     |             | UG/KG | 92/92      |         | N-Nitrosodiphenylamine     |              |
|              | ,                     |          |            |             |       |            |         |                            | te Alexandre |

PF-36A-N-10' 92.26698

PF-36A-N-10' 92.26698

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|--------------------|----------------------------------------|----------|----------------------|---------------------------|-------|--------------------|---------|------------------------|--|--|--|--|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER                       | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |  |  |  |  |  |
| PF-36A-N-10'       | 92.26698                               | 87865    | < 330.               |                           | UG/KG | 12/02/92           |         | Pentachlorophenol      |  |  |  |  |  |
| PF-36A-N-10'       | 92.26698                               | 85018    | < 330.               |                           | UG/KG | 12/02/92           |         | Phenanthrene           |  |  |  |  |  |
| PF-36A-N-10'       | 92.26698                               | 108952   | < 330.               |                           | UG/KG | 12/02/92           |         | Phenol                 |  |  |  |  |  |
| PF-36A-N-10'       | 92.26698                               | 129000   | < 330.               |                           | UG/KG | 12/02/92           |         | Pyrene                 |  |  |  |  |  |
| PF-36A-N-10'       | 92.26698                               | 120821   | < 330.               |                           | UG/KG | 12/02/92           |         | 1,2,4-Trichlorobenzene |  |  |  |  |  |

12/02/92

12/02/92

1,2,4-Trichlorobenzene

2,4,5-Trichlorophenol

2,4,6~Trichlorophenol

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UG/KG

UG/KG

Tentatively Identified Compounds in Customer Sample # 92.26698

< 330.

< 330.

95954

88062

none

\$ \.

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|                     |                                                                                                         |               | ***1       | *****           | ** EM~9 | ANALYTICAL REPO | )RT ****  | ********                                       |  |  |  |  |
|---------------------|---------------------------------------------------------------------------------------------------------|---------------|------------|-----------------|---------|-----------------|-----------|------------------------------------------------|--|--|--|--|
|                     |                                                                                                         |               | EP/        | A SEMIVOLATILES | Pre     | pared by: LAK   | C         | on 9-Dec-1992                                  |  |  |  |  |
| REQUEST NUMB        | REQUEST NUMBER: 13439 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 117 |               |            |                 |         |                 |           |                                                |  |  |  |  |
| OWNER: Phil         | ip R. Fres                                                                                              | quez G        | ROUP: EM-8 | MAIL-STOP:      | K490 P  | HONE: 7-0815    | TECHNIQUE | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |  |  |  |  |
| <u>Customer Sam</u> | ple Result                                                                                              | s, Sample ≢ 9 | 2.26699 D  | ate Collected:  | 8/25/92 | Date Received:  | 8/26/92   | Date Extracted: 9/03/92 Date Analyzed: 9/29/92 |  |  |  |  |
| CUSTOMER            | SAMPLE                                                                                                  |               | ANALYTICAL | ANALYTICAL      |         | COMPLETION      |           | COMPOUND                                       |  |  |  |  |
| NUMBER              | NUMBER                                                                                                  | ANALYSIS      | RESULT     | UNCERTAINTY     | UNITS   | DATE            | COMMENT   | NAME                                           |  |  |  |  |
|                     |                                                                                                         |               |            |                 |         | 10/00/00        |           | Accessible                                     |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 83329         | < 330.     |                 | UG/KG   | 12/02/92        |           | Acenaphthylene                                 |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 208968        | < 330.     |                 |         | 12/02/92        |           | Aniline                                        |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 62533         | < 330.     |                 |         | 12/02/92        |           | Anthracene                                     |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 120127        | < 330.     |                 |         | 12/02/92        |           |                                                |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 103333        | < 330.     |                 |         | 12/02/92        |           | m-Benzidine                                    |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 928/5         | < 330.     |                 |         | 12/02/92        |           | m benziume<br>Benzo[a]anthracene               |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 56553         | < 330.     |                 |         | 12/02/92        |           |                                                |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 50328         | < 330.     |                 |         | 12/02/92        |           | Benzo[b]fluoranthene                           |  |  |  |  |
| PF-36A-N-5'         | 92.26699                                                                                                | 205992        | < 330.     |                 |         | 12/02/92        |           |                                                |  |  |  |  |
| PF-36A-N-5'         | 92.20099                                                                                                | 191242        | < 330.     |                 |         | 12/02/92        |           | Benzo[k]fluoranthene                           |  |  |  |  |
| PF-36A-N-5'         | 92.20099                                                                                                | 207009        | < 330.     |                 | UG/KG   | 12/02/92        |           | Benzoic acid                                   |  |  |  |  |
| PF-36A-N-5'         | 92.20099                                                                                                | 100516        | < 330.     |                 | 11G/KG  | 12/02/92        |           | Benzyl alcohol                                 |  |  |  |  |
| PF-30A-N-5          | 92.20099                                                                                                | 111011        | < 330      |                 | UG/KG   | 12/02/92        |           | Bis(2-chloroethoxy)methane                     |  |  |  |  |
| PF-30A-N-5          | 92.20099                                                                                                | 111444        | < 330      |                 | UG/KG   | 12/02/92        |           | Bis(2-chloroethyl)ether                        |  |  |  |  |
| PF-36A-N-5/         | 02 26600                                                                                                | 108601        | < 330.     |                 | UG/KG   | 12/02/92        |           | Bis(2-chloroisopropyl)ether                    |  |  |  |  |
| PF-30A-N-5/         | 02 26600                                                                                                | 117817        | 480.       | 144.            | UG/KG   | 12/02/92        |           | Bis(2-ethylhexyl)phthalate                     |  |  |  |  |
| PF-36A-N-5/         | 02 26600                                                                                                | 101553        | < 330.     |                 | UG/KG   | 12/02/92        |           | 4-Bromophenylphenyl ether                      |  |  |  |  |
| PE-36A-N-E/         | 07 26600                                                                                                | 85687         | < 330      |                 | UG/KG   | 12/02/92        |           | Butyl benzyl phthalate                         |  |  |  |  |
| PF-JOA-N-D'         | 92.20039                                                                                                | 59507         | < 330      |                 | UG/KG   | 12/02/92        |           | 4-Chloro-3-methylphenol                        |  |  |  |  |
| PE-364-N-E          | 92.20039                                                                                                | 106478        | < 330      |                 | UG/KG   | 12/02/92        |           | 4-Chloroaniline                                |  |  |  |  |
| PE-36A-N-E/         | 02 26600                                                                                                | 91587         | < 330      |                 | UG/KG   | 12/02/92        |           | 2-Chloronaphthalene                            |  |  |  |  |
| FT-364-M-E/         | 92.20033                                                                                                | 95578         | < 330      |                 | UG/KG   | 12/02/92        |           | o-Chlorophenol                                 |  |  |  |  |
| FT-30A-N-51         | 92.20033                                                                                                | 7005723       | < 330      |                 | UG/KG   | 12/02/92        |           | 4-Chlorophenylphenyl ether                     |  |  |  |  |
|                     | 92.20099                                                                                                | 218010        | < 330      |                 | UG/KG   | 12/02/92        |           | Chrysene                                       |  |  |  |  |
| PF-30A-N-D          | 92.20099                                                                                                | 84742         | < 330      |                 | UG/KG   | 2/92            |           | Di-n-butyl phthalate                           |  |  |  |  |
| FE JUM-)            | 32.20033                                                                                                | 07/72         |            |                 | ,       | i di t          |           | $\frac{2}{n}$                                  |  |  |  |  |

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| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                               |
|-------------|----------|----------|------------|-------------|-------|------------|---------|----------------------------------------|
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                                   |
| PF-36A-N-5' | 92.26699 | 117840   | < 330.     |             | UG/KG | 12/02/92   |         | Di-n-octyl phthalate                   |
| PF-36A-N-5' | 92.26699 | 53703    | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzo[a,h]anthracene                 |
| PF-36A-N-5' | 92.26699 | 132649   | < 330.     |             | UG/KG | 12/02/92   |         | Dibenzofuran                           |
| PF-36A-N-5' | 92.26699 | 95501    | < 330.     |             | UG/KG | 12/02/92   |         | o-Dichlorobenzene (1,2)                |
| PF-36A-N-5' | 92.26699 | 541731   | < 330.     |             | UG/KG | 12/02/92   |         | m-Dichlorobenzene (1,3)                |
| PF-36A-N-5' | 92.26699 | 106467   | < 330.     |             | UG/KG | 12/02/92   |         | p-Dichlorobenzene (1,4)                |
| PF-36A-N-5' | 92.26699 | 91941    | < 330.     |             | UG/KG | 12/02/92   |         | 3,3'-Dichlorobenzidine                 |
| PF-36A-N-5' | 92.26699 | 120832   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dichlorophenol                     |
| PF-36A-N-5' | 92.26699 | 84662    | < 330.     |             | UG/KG | 12/02/92   |         | Diethyl phthalate                      |
| PF-36A-N-5' | 92.26699 | 131113   | < 330.     |             | UG/KG | 12/02/92   |         | Dimethyl phthalate                     |
| PF-36A-N-5' | 92.26699 | 105679   | < 330.     |             | UG/KG | 12/02/92   |         | <ul> <li>2,4-Dimethylphenol</li> </ul> |
| PF-36A-N-5' | 92.26699 | 51285    | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrophenol                      |
| PF-36A-N-5' | 92.26699 | 121142   | < 330.     |             | UG/KG | 12/02/92   |         | 2,4-Dinitrotoluene                     |
| PF-36A-N-5' | 92.26699 | 606202   | < 330.     |             | UG/KG | 12/02/92   |         | 2,6-Dinitrotoluene                     |
| PF-36A-N-5' | 92.26699 | 206440   | < 330.     |             | UG/KG | 12/02/92   |         | Fluoranthene                           |
| PF-36A-N-5' | 92.26699 | 86737    | < 330.     |             | UG/KG | 12/02/92   |         | Fluorene                               |
| PF-36A-N-5' | 92.26699 | 118741   | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobenzene                      |
| PF-36A-N-5' | 92.26699 | 87683    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorobutadiene                    |
| PF-36A-N-5' | 92.26699 | 77474    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachlorocyclopentadiene              |
| PF-36A-N-5' | 92.26699 | 67721    | < 330.     |             | UG/KG | 12/02/92   |         | Hexachloroethane                       |
| F-36A-N-5'  | 92.26699 | 193395   | < 330.     |             | UG/KG | 12/02/92   |         | Indeno[1,2,3~cd]pyrene                 |
| F-36A-N-5'  | 92.26699 | 78591    | < 330.     |             | UG/KG | 12/02/92   |         | Isophorone                             |
| 'F-36A-N-5' | 92.26699 | 534521   | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methyl-4,6-dinitrophenol             |
| PF-36A-N-5' | 92.26699 | 91576    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylnaphthalene                    |
| PF-36A-N-5' | 92.26699 | 95487    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Methylphenol                         |
| PF-36A-N-5' | 92.26699 | 106445   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Methylphenol                         |
| PF-36A-N-5' | 92.26699 | 91203    | < 330.     |             | UG/KG | 12/02/92   |         | Naphthalene                            |
| PF-36A-N-5' | 92.26699 | 88744    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitroaniline                         |
| PF-36A-N-5' | 92.26699 | 99092    | < 330.     |             | UG/KG | 12/02/92   |         | 3-Nitroaniline                         |
| PF-36A-N-5' | 92.26699 | 100016   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitroaniline                         |
| PF-36A-N-5' | 92.26699 | 98953    | < 330.     |             | UG/KG | 12/02/92   |         | Nitrobenzene                           |
| PF-36A-N-5' | 92.26699 | 88755    | < 330.     |             | UG/KG | 12/02/92   |         | 2-Nitrophenol                          |
| PF-36A-N-5' | 92.26699 | 100027   | < 330.     |             | UG/KG | 12/02/92   |         | 4-Nitrophenol                          |
| PF-36A-N-5' | 92.26699 | 621647   | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodi-n-propylamine              |
| PF-36A-N-5' | 92.26699 | 62759    | < 330.     |             | UG/KG | 12/02/92   |         | N-Nitrosodimethylamine                 |
| DE-364-N-5/ | 02 26600 | 86306    | < 330      |             | UG/KG | 12/02/92   |         | N-Nitrosodiphenylamine                 |

PF-36A-N-5' 92.26699

|          |          | ********************* EM-9 ANALYTICAL REPORT ************************************ |             |       |            |         |                   |  |  |  |
|----------|----------|-----------------------------------------------------------------------------------|-------------|-------|------------|---------|-------------------|--|--|--|
| SAMPLE   |          | ANALYTICAL                                                                        | ANALYTICAL  |       | COMPLETION |         | Compound          |  |  |  |
| NUMBER   | ANALYSIS | RESULT                                                                            | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME              |  |  |  |
| 92.26699 | 87865    | < 330.                                                                            |             | UG/KG | 12/02/92   |         | Pentachlorophenol |  |  |  |
| 92.26699 | 85018    | < 330.                                                                            |             | UG/KG | 12/02/92   |         | Phenanthrene      |  |  |  |
| 2.26699  | 108952   | < 330.                                                                            |             | UG/KG | 12/02/92   |         | Phenol            |  |  |  |

Pyrene

1,2,4-Trichlorobenzene

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

12/02/92

12/02/92

12/02/92

12/02/92

UG/KG

UG/KG

UG/KG

UG/KG

Tentatively Identified Compounds in Customer Sample # 92.26699

< 330.

< 330.

< 330.

< 330.

129000

120821

95954

88062

none

CUSTOMER

NUMBER

Page: 73

|                           |            | ********                  | EM-9 QUALITY ASSU | RANCE REPORT  | ****                |                          |
|---------------------------|------------|---------------------------|-------------------|---------------|---------------------|--------------------------|
|                           |            | EPA SEMIVOLATILES         | Prepared by: LAK  | on            | 9-Dec-1992          |                          |
| REQUEST NUMBER: 13439     | MATRIX: SS | ANALYST: ANTHONY LOMBARDO |                   | PROGRAM CODE: | M106 NOTEBOOK: R733 | 36 PAGE: 117             |
| OWNER: Philip R. Fresquez | GROUP: EM- | -8 MAIL-STOP: K490        | PHONE: 7-0815     | TECHNIQUE:    | GCEC ANALYTICAL PR  | ROCEDURE: EPA SW-846 3RD |

### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

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- \_\_\_\_\_ Only qualitative data requested
- \_\_\_\_\_ Only Blind QC samples run with this batch.
- \_\_\_\_\_ No QC samples run with this sample batch.
- \_\_\_\_\_ No QC samples for this constituent and matrix type available within EM-9

## SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

| <u>Blank Resul</u> | lts, Sample # | 92.26725 | Date Collecte | d: 8/26/92  | Date Received: | 8/26/92 | Date Extracted | : 8/31/92  | Date Analyze   | ed: 9/24/92                 |
|--------------------|---------------|----------|---------------|-------------|----------------|---------|----------------|------------|----------------|-----------------------------|
| CUSTOMER           | SAMPLE        |          | ANALYTICAL    | ANALYTICAL  |                | QC      | QC             | COMPLETION | I              | COMPOUND                    |
| NUMBER             | NUMBER        | ANALYSIS | RESULT        | UNCERTAINTY | UNITS          | VALUE   | UNCERTAINTY    | DATE       | COMMENT        | NAME                        |
| 00.20227           | 92.26725      | 83329    | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Acenaphthene                |
| 00.20227           | 92.26725      | 208968   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Acenaphthylene              |
| 00.20227           | 92.26725      | 62533    | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Aniline                     |
| 00.20227           | 92.26725      | 120127   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Anthracene                  |
| 00.20227           | 92.26725      | 103333   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Azobenzene                  |
| 00.20227           | 92.26725      | 92875    | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | m-Benzidine                 |
| 00.20227           | 92.26725      | 56553    | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Benzo[a]anthracene          |
| 00.20227           | 92 26725      | 50328    | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Benzo[a]pyrene              |
| 00.20227           | 92 26725      | 205992   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Benzo[b]fluoranthene        |
| 00.20227           | 92 26725      | 191242   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Benzo[g,h,i]perylene        |
| 00.20227           | 02 26725      | 207089   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Benzo[k]fluoranthene        |
| 00.20227           | 92.20725      | 65850    | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Benzoic acid                |
| 00.20227           | 92.20725      | 100516   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Benzyl alcohol              |
| 00.20227           | 92.20725      | 111911   | < 330.        |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Bis(2-chloroethoxy)methane  |
| 00.20227           | 92.20725      | 111444   | < 330         |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Bis(2-chloroethyl)ether     |
| 00.20227           | 92.20725      | 108601   | < 330         |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Bis(2-chloroisopropyl)ether |
| 00.20227           | 92.20723      | 117917   | < 330         |             | UG/KG          | 0.0     |                | 12/02/92   | UNDER CONTROL  | Bis(2-ethylhexyl)phthalate  |
| 00.20227           | 92.20725      | 101552   | < 330         |             |                | 0.0     |                | 12/02/92   | UNDER CONTROL  | 4-Bromophenylphenyl ether   |
| 00.20227           | 92.26/25      | 101555   | < 330.        |             | UG /KG         | 0.0     |                | 12/02/92   | UNDER CONTROL  | Butyl benzyl phthalate      |
| 00.20227           | 92.26/25      | 8508/    | < 330.        |             |                | 0.0     |                | 12/02/92   | UNDER CONTROL  | 4-Chloro-3-methylphenol     |
| 00.20227           | 92.26725      | 59507    | < 330.        |             |                | 0.0     |                | 12/02/92   | LINDER CONTROL | 4-Chloroaniline             |
| 00.20227           | 92.26725      | 106478   | < 330.        |             | 00/10          | 0.0     |                | 12,02,92   | SHEET, SOUTHER |                             |

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| CUSTOMER | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION | 1             | COMPOUND                   |
|----------|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|----------------------------|
| NUMBER   | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       | NAME                       |
| 00.20227 | 92.26725 | 91587    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Chloronaphthalene        |
| 00.20227 | 92.26725 | 95578    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | o-Chlorophenol             |
| 00.20227 | 92.26725 | 7005723  | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 4-Chlorophenylphenyl ether |
| 00.20227 | 92.26725 | 218019   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Chrysene                   |
| 00.20227 | 92.26725 | 84742    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Di-n-butyl phthalate       |
| 00.20227 | 92.26725 | 117840   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Di-n-octyl phthalate       |
| 00.20227 | 92.26725 | 53703    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Dibenzo[a,h]anthracene     |
| 00.20227 | 92.26725 | 132649   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Dibenzofuran               |
| 00.20227 | 92.26725 | 95501    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | o-Dichlorobenzene (1,2)    |
| 00.20227 | 92.26725 | 541731   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | m-Dichlorobenzene (1,3)    |
| 00.20227 | 92.26725 | 106467   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | p-Dichlorobenzene (1,4)    |
| 00.20227 | 92.26725 | 91941    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 3,3'-Dichlorobenzidine     |
| 00.20227 | 92.26725 | 120832   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dichlorophenol         |
| 00.20227 | 92.26725 | 84662    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Diethyl phthalate          |
| 00.20227 | 92.26725 | 131113   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Dimethyl phthalate         |
| 00.20227 | 92.26725 | 105679   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dimethylphenol         |
| 00.20227 | 92.26725 | 51285    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dinitrophenol          |
| 00.20227 | 92.26725 | 121142   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dinitrotoluene         |
| 00.20227 | 92.26725 | 606202   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,6-Dinitrotoluene         |
| 00.20227 | 92.26725 | 206440   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Fluoranthene               |
| 00.20227 | 92.26725 | 86737    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Fluorene                   |
| 00.20227 | 92.26725 | 118741   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachlorobenzene          |
| 00.20227 | 92.26725 | 87683    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachlorobutadiene        |
| 00.20227 | 92.26725 | 77474    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachlorocyclopentadiene  |
| 00.20227 | 92.26725 | 67721    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachloroethane           |
| 00.20227 | 92.26725 | 193395   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Indeno[1,2,3-cd]pyrene     |
| 00.20227 | 92.26725 | 78591    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Isophorone                 |
| 00.20227 | 92.26725 | 534521   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Methyl-4,6-dinitrophenol |
| 00.20227 | 92.26725 | 91576    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Methylnaphthalene        |
| 00.20227 | 92.26725 | 95487    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Methylphenol             |
| 00.20227 | 92.26725 | 106445   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 4-Methylphenol             |
| 00.20227 | 92.26725 | 91203    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Naphthalene                |
| 00.20227 | 92.26725 | 88744    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Nitroaniline             |
| 00.20227 | 92.26725 | 99092    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 3-Nitroaniline             |
| 00.20227 | 92.26725 | 100016   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 4-Nitroaniline             |
| 00.20227 | 92.26725 | 98953    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Nitrobenzene               |

| USTOMER  | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION | 1             | COMPOUND                 |
|----------|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|--------------------------|
| NUMBER   | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       | NAME                     |
| 0.20227  | 92.26725 | 88755    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Nitrophenol            |
| 0.20227  | 92.26725 | 100027   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 4-Nitrophenol            |
| 0.20227  | 92.26725 | 621647   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | N-Nitrosodi-n-propylamin |
| 0.20227  | 92.26725 | 62759    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | N-Nitrosodimethylamine   |
| 00.20227 | 92.26725 | 86306    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | N-Nitrosodiphenylamine   |
| 00.20227 | 92.26725 | 87865    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Pentachlorophenol        |
| 00.20227 | 92.26725 | 85018    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Phenanthrene             |
| 00.20227 | 92.26725 | 108952   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Phenol                   |
| 00.20227 | 92.26725 | 129000   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | Pyrene                   |
| 00.20227 | 92.26725 | 120821   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 1,2,4-Trichlorobenzene   |
| 00.20227 | 92.26725 | 95954    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4,5-Trichlorophenol    |
| 00.20227 | 92.26725 | 88062    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4,6-Trichlorophenol    |

Blank Results, Sample # 92.26726 Date Collected: 8/26/92 Date Received: 8/26/92 Date Extracted: 9/03/92 Date Analyzed: 9/24/92 SAMPLE ANALYTICAL ANALYTICAL QC QC COMPLETION COMPOUND CUSTOMER RESULT UNCERTAINTY VALUE UNCERTAINTY COMMENT NAME NUMBER NUMBER ANALYSIS UNITS DATE UG/KG 0.0 12/02/92 UNDER CONTROL 83329 < 330. Acenaphthene 00.20227 92.26726 UG/KG 00.20227 92.26726 208968 < 330. 0.0 12/02/92 UNDER CONTROL Acenaphthylene 00.20227 92.26726 62533 < 330. UG/KG 0.0 12/02/92 UNDER CONTROL Aniline 0.0 12/02/92 UNDER CONTROL 00.20227 92.26726 120127 < 330. UG/KG Anthracene 00.20227 92.26726 103333 < 330. UG/KG 0.0 12/02/92 UNDER CONTROL Azobenzene UG/KG 0.0 12/02/92 UNDER CONTROL m-Benzidine 00.20227 92.26726 92875 < 330. Benzo[a]anthracene UG/KG 0.0 12/02/92 UNDER CONTROL 00.20227 92.26726 56553 < 330. 00.20227 92.26726 50328 < 330. UG/KG 0.0 12/02/92 UNDER CONTROL Benzo[a]pyrene < 330. UG/KG 0.0 12/02/92 UNDER CONTROL Benzo[b]fluoranthene 00.20227 92.26726 205992

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### REPORT NUMBER: 16239

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|          |          |          |            | ***********   | EM-9 Q | UALITY ASSURAN | CE REPORT   | *******    | **            |                             |
|----------|----------|----------|------------|---------------|--------|----------------|-------------|------------|---------------|-----------------------------|
| CUSTOMER | SAMPLE   |          | ANALYTICAL | ANALYTICAL    |        | QC             | QC          | COMPLETION | l             | COMPOUND                    |
| NUMBER   | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY U | NITS   | VALUE          | UNCERTAINTY | DATE       | COMMENT       | NAME                        |
| 00.20227 | 92.26726 | 191242   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Benzo[g,h,i]perylene        |
| 00.20227 | 92.26726 | 207089   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Benzo[k]fluoranthene        |
| 00.20227 | 92.26726 | 65850    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Benzoic acid                |
| 00.20227 | 92.26726 | 100516   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Benzyl alcohol              |
| 00.20227 | 92.26726 | 111911   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Bis(2-chloroethoxy)methane  |
| 00.20227 | 92.26726 | 111444   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Bis(2-chloroethyl)ether     |
| 00.20227 | 92.26726 | 108601   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Bis(2-chloroisopropyl)ether |
| 00.20227 | 92.26726 | 117817   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Bis(2-ethylhexyl)phthalate  |
| 00.20227 | 92.26726 | 101553   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | 4-Bromophenylphenyl ether   |
| 00.20227 | 92.26726 | 85687    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Butyl benzyl phthalate      |
| 00.20227 | 92.26726 | 59507    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | 4-Chloro-3-methylphenol     |
| 00.20227 | 92.26726 | 106478   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | 4-Chloroaniline             |
| 00.20227 | 92.26726 | 91587    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | 2-Chloronaphthalene         |
| 00.20227 | 92.26726 | 95578    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | o-Chlorophenol              |
| 00.20227 | 92.26726 | 7005723  | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | 4-Chlorophenylphenyl ether  |
| 00.20227 | 92.26726 | 218019   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Chrysene                    |
| 00.20227 | 92.26726 | 84742    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Di-n-butyl phthalate        |
| 00.20227 | 92.26726 | 117840   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Di-n-octyl phthalate        |
| 00.20227 | 92.26726 | 53703    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Dibenzo[a,h]anthracene      |
| 00.20227 | 92.26726 | 132649   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | Dibenzofuran                |
| 00.20227 | 92.26726 | 95501    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | o-Dichlorobenzene (1,2)     |
| 00.20227 | 92.26726 | 541731   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | m-Dichlorobenzene (1,3)     |
| 00.20227 | 92.26726 | 106467   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | p-Dichlorobenzene (1,4)     |
| 00.20227 | 92.26726 | 91941    | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | 3,3'-Dichlorobenzidine      |
| 00.20227 | 92.26726 | 120832   | < 330.     | U             | IG/KG  | 0.0            |             | 12/02/92   | UNDER CONTROL | 2,4-Dichlorophenol          |

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12/02/92 UNDER CONTROL

Diethyl phthalate

Dimethyl phthalate

2,4-Dimethylphenol

2,4-Dinitrophenol

2,4-Dinitrotoluene

2,6-Dinitrotoluene

Hexachlorobenzene

Hexachlorobutadiene

Hexachlorocyclopentadiene

Fluoranthene

Fluorene

UG/KG

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

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| *************** EM-9 QUALITY ASSURANCE REPORT ************************************ |          |          |            |             |       |       |             |           |               |                            |  |
|------------------------------------------------------------------------------------|----------|----------|------------|-------------|-------|-------|-------------|-----------|---------------|----------------------------|--|
| CUSTOMER                                                                           | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETIO | N             | COMPOUND                   |  |
| NUMBER                                                                             | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE      | COMMENT       | NAME                       |  |
| 00.20227                                                                           | 92.26726 | 67721    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Hexachloroethane           |  |
| 00.20227                                                                           | 92.26726 | 193395   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Indeno[1,2,3-cd]pyrene     |  |
| 00.20227                                                                           | 92.26726 | 78591    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Isophorone                 |  |
| 00.20227                                                                           | 92.26726 | 534521   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 2-Methyl-4,6-dinitrophenol |  |
| 00.20227                                                                           | 92.26726 | 91576    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 2-Methylnaphthalene        |  |
| 00.20227                                                                           | 92.26726 | 95487    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 2-Methylphenol             |  |
| 00.20227                                                                           | 92.26726 | 106445   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 4-Methylphenol             |  |
| 00.20227                                                                           | 92.26726 | 91203    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Naphthalene                |  |
| 00.20227                                                                           | 92.26726 | 88744    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 2-Nitroaniline             |  |
| 00.20227                                                                           | 92.26726 | 99092    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 3-Nitroaniline             |  |
| 00.20227                                                                           | 92.26726 | 100016   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 4-Nitroaniline             |  |
| 00.20227                                                                           | 92.26726 | 98953    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Nitrobenzene               |  |
| 00.20227                                                                           | 92.26726 | 88755    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 2-Nitrophenol              |  |
| 00.20227                                                                           | 92.26726 | 100027   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 4-Nitrophenol              |  |
| 00.20227                                                                           | 92.26726 | 621647   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | N-Nitrosodi-n-propylamine  |  |
| 00.20227                                                                           | 92.26726 | 62759    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | N-Nitrosodimethylamine     |  |
| 00.20227                                                                           | 92.26726 | 86306    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | N-Nitrosodiphenylamine     |  |
| 00.20227                                                                           | 92.26726 | 87865    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Pentachlorophenol          |  |
| 00.20227                                                                           | 92.26726 | 85018    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Phenanthrene               |  |
| 00.20227                                                                           | 92.26726 | 108952   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Phenol                     |  |
| 00.20227                                                                           | 92.26726 | 129000   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | Pyrene                     |  |
| 00.20227                                                                           | 92.26726 | 120821   | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 1,2,4-Trichlorobenzene     |  |
| 00.20227                                                                           | 92.26726 | 95954    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 2,4,5-Trichlorophenol      |  |
| 00.20227                                                                           | 92.26726 | 88062    | < 330.     |             | UG/KG | 0.0   |             | 12/02/92  | UNDER CONTROL | 2,4,6-Trichlorophenol      |  |

Blank Spike Results: none

Blank Spike Duplicate Results: none

### SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

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Blind QC Results, Sample # 92.26723 Date Collected: 8/26/92 Date Received: 8/26/92 Date Extracted: 8/31/92 Date Analyzed: 9/24/92

| SAMPLE   |                | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION |                 |                             |
|----------|----------------|------------|-------------|-------|-------|-------------|------------|-----------------|-----------------------------|
| NUM      | ANALYSIS       | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT         | COMPOUND-NAME               |
| 92.26723 | 83329          | 2.4        | 0.72        | MG/KG | 5.    | 0.5         | 12/02/92   | WARNING 2-3 SIG | Acenaphthene                |
| 92.26723 | 208968         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Acenaphthylene              |
| 92.26723 | 62533          | 0.36       | 0.108       | MG/KG | 5.8   | 0.6         | 12/02/92   | OUT OF CONTROL  | Aniline                     |
| 92.26723 | 120127         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Anthracene                  |
| 92.26723 | 103333         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Azobenzene                  |
| 92.26723 | 92875          | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | m-Benzidine                 |
| 92.26723 | 56553          | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Benzo[a]anthracene          |
| 92.26723 | 50328          | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Benzo[a]pyrene              |
| 92.26723 | 205992         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Benzo[b]fluoranthene        |
| 92.26723 | 191242         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Benzo[g,h,i]perylene        |
| 92.26723 | 207089         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Benzo[k]fluoranthene        |
| 92.26723 | 65850          | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Benzoic acid                |
| 92.26723 | 100516         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Benzyl alcohol              |
| 92.26723 | 111911         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Bis(2-chloroethoxy)methane  |
| 92.26723 | 111444         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Bis(2-chloroethyl)ether     |
| 92.26723 | 108601         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Bis(2-chloroisopropyl)ether |
| 92.26723 | 117817         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Bis(2-ethylhexyl)phthalate  |
| 92.26723 | 101553         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | 4-Bromophenylphenyl ether   |
| 92.26723 | 85687          | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Butyl benzyl phthalate      |
| 92.26723 | 59507          | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | 4-Chloro-3-methylphenoi     |
| 92.26723 | 106478         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | 4-Chloroaniline             |
| 92.26723 | 915 <b>8</b> 7 | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | 2-Chloronaphthalene         |
| 92.26723 | 95578          | 1.7        | 0.51        | MG/KG | 5.4   | 0.5         | 12/02/92   | OUT OF CONTROL  | o-Chlorophenol              |
| 92.26723 | 7005723        | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | 4-Chlorophenylphenyl ether  |
| 92.26723 | 218019         | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Chrysene                    |
| 92.26723 | 84742          | < 0.33     |             | MG/KG | 0.0   |             | 12/02/92   | UNDER CONTROL   | Di-n-butyl phthalate        |

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| 92.26723 | 117840        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Di-n-octyl phthalate       |
|----------|---------------|--------|------|-------|-----|-----|----------|-----------------|----------------------------|
| 92.26723 | 53703         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Dibenzo[a,h]anthracene     |
| 92.26723 | 132649        | 2.3    | 0.69 | MG/KG | 4.7 | 0.5 | 12/02/92 | WARNING 2-3 SIG | Dibenzofuran               |
| 92.26723 | 95501         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | o-Dichlorobenzene (1,2)    |
| 92.26723 | 541731        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | m-Dichlorobenzene (1,3)    |
| 92.26723 | 106467        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | p-Dichlorobenzene (1,4)    |
| 92.26723 | 91941         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 3,3'-Dichlorobenzidine     |
| 92.26723 | 120832        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,4-Dichlorophenol         |
| 92.26723 | 84662         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Diethyl phthalate          |
| 92.26723 | 131113        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Dimethyl phthalate         |
| 92.26723 | 105679        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,4-Dimethylphenol         |
| 92.26723 | 51285         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,4-Dinitrophenol          |
| 92.26723 | 121142        | 3.8    | 1.14 | MG/KG | 7.  | 0.7 | 12/02/92 | WARNING 2-3 SIG | 2,4-Dinitrotoluene         |
| 92.26723 | 606202        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,6-Dinitrotoluene         |
| 92.26723 | 206440        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Fluoranthene               |
| 92.26723 | 86737         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Fluorene                   |
| 92.26723 | 118741        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Hexachlorobenzene          |
| 92.26723 | 87683         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Hexachlorobutadiene        |
| 92.26723 | 77474         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Hexachlorocyclopentadiene  |
| 92.26723 | 67721         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Hexachloroethane           |
| 92.26723 | 193395        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Indeno[1,2,3-cd]pyrene     |
| 92.26723 | 78591         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Isophorone                 |
| 92.26723 | 534521        | 2.4    | 0.72 | MG/KG | 5.1 | 0.5 | 12/02/92 | OUT OF CONTROL  | 2-Methyl-4,6-dinitrophenol |
| 92.26723 | 91576         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Methylnaphthalene        |
| 92.26723 | 95487         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Methylphenol             |
| 92.26723 | 106445        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 4-Methylphenol             |
| 92.26723 | 91203         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Naphthalene                |
| 92.26723 | 88744         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Nitroaniline             |
| 92.26723 | 99092         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 3-Nitroaniline             |
| 92.26723 | 100016        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 4-Nitroaniline             |
| 92.26723 | <b>989</b> 53 | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Nitrobenzene               |
| 92.26723 | 88755         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Nitrophenol              |
| 92.26723 | 100027        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 4-Nitrophenol              |
| 92.26723 | 621647        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | N-Nitrosodi-n-propylamine  |
| 92.26723 | 62759         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | N-Nitrosodimethylamine     |
| 92.26723 | 86306         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | N-Nitrosodiphenylamine     |
| 92.26723 | 87865         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Pentachlorophenol          |
| 92.26723 | 85018         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Phenanthrene               |
| 92.26723 | 108952        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Phenol                     |
| 92.26723 | 129000        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Pyrene                     |
| 92.26723 | 120821        | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 1,2,4-Trichlorobenzene     |
| 92.26723 | 95954         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,4,5-Trichlorophenol      |
| 92.26723 | 88062         | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,4,6-Trichlorophenol      |
| -        |               |        |      |       |     |     |          |                 |                            |

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< 0.33

MG/KG

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8/26/92

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9/03/92 Date Analyzed: 9/24/92

Date Extracted:

12/02/92 UNDER CONTROL

Hexachlorobenzene

92.26724 83329 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Acenaphthene 92.26724 208968 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Acenaphthylene 92.26724 62533 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Aniline 92.26724 120127 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Anthracene 92.26724 103333 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Azobenzene 92.26724 92875 < 0.33MG/KG 0.0 12/02/92 UNDER CONTROL m-Benzidine 92.26724 56553 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Benzo[a]anthracene 92.26724 50328 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Benzo[a]pyrene 92.26724 205992 2.7 0.81 MG/KG 4.4 0.4 12/02/92 UNDER CONTROL Benzo[b]fluoranthene 92.26724 191242 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Benzo[g,h,i]perylene 92.26724 207089 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Benzo[k]fluoranthene 92.26724 65850 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Benzoic acid 92.26724 100516 < 0.33MG/KG 0.0 12/02/92 UNDER CONTROL Benzyl alcohol 92.26724 111911 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Bis(2-chloroethoxy)methane 92.26724 111444 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Bis(2-chloroethyl)ether 92.26724 108601 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Bis(2-chloroisopropyl)ether 92.26724 117817 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Bis(2-ethylhexyl)phthalate 92.26724 101553 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 4-Bromophenylphenyl ether 92.26724 85687 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Butyl benzyl phthalate 92.26724 59507 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 4-Chloro-3-methylphenol 92.26724 106478 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 4-Chloroaniline 92.26724 91587 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 2-Chloronaphthalene 92.26724 95578 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL o-Chlorophenol 92.26724 7005723 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 4-Chlorophenylphenyl ether 92.26724 218019 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Chrysene 92.26724 84742 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Di-n-butyl phthalate 92.26724 117840 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Di-n-octyl phthalate 92.26724 53703 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Dibenzo[a,h]anthracene 92.26724 132649 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Dibenzofuran 92.26724 95501 < 0.33MG/KG 0.0 12/02/92 UNDER CONTROL o-Dichlorobenzene (1,2) 92.26724 < 0.33 541731 MG/KG 0.0 12/02/92 UNDER CONTROL m-Dichlorobenzene (1.3) 92.26724 < 0.33 106467 MG/KG 0.0 12/02/92 UNDER CONTROL p-Dichlorobenzene (1,4) 92.26724 91941 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 3,3'-Dichlorobenzidine 92.26724 < 0.33 120832 MG/KG 0.0 12/02/92 UNDER CONTROL 2,4-Dichlorophenol 92.26724 84662 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Diethyl phthalate 92.26724 < 0.33 131113 MG/KG 0.0 12/02/92 UNDER CONTROL Dimethyl phthalate 92.26724 < 0.33 105679 MG/KG 0.0 12/02/92 UNDER CONTROL 2,4-Dimethylphenol 92.26724 51285 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 2,4-Dinitrophenol 92.26724 < 0.33 121142 MG/KG 0.0 12/02/92 UNDER CONTROL 2,4-Dinitrotoluene 92.26724 606202 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL 2,6-Dinitrotoluene 92.26724 206440 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Fluoranthene 92.26724 86737 < 0.33 MG/KG 0.0 12/02/92 UNDER CONTROL Eluorene 92.26724

0.0

| 92.26724 | 87683  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Hexachlorobutadiene        |
|----------|--------|--------|------|-------|-----|-----|----------|-----------------|----------------------------|
| 92.26724 | 77474  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Hexachlorocyclopentadiene  |
| 92.26724 | 67721  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Hexachloroethane           |
| 92.26724 | 193395 | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Indeno[1,2,3-cd]pyrene     |
| 92.26724 | 78591  | 2.5    | 0.75 | MG/KG | 4.1 | 0.4 | 12/02/92 | UNDER CONTROL   | Isophorone                 |
| 92.26724 | 534521 | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Methyl-4,6-dinitrophenol |
| 92.26724 | 91576  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Methylnaphthalene        |
| 92.26724 | 95487  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Methylphenol             |
| 92.26724 | 106445 | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 4-Methylphenol             |
| 92.26724 | 91203  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Naphthalene                |
| 92.26724 | 88744  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Nitroaniline             |
| 92.26724 | 99092  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 3-Nitroaniline             |
| 92.26724 | 100016 | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 4-Nitroaniline             |
| 92.26724 | 98953  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Nitrobenzene               |
| 92.26724 | 88755  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2-Nitrophenol              |
| 92.26724 | 100027 | 2.     | 0.6  | MG/KG | 4.1 | 0.4 | 12/02/92 | WARNING 2-3 SIG | 4-Nitrophenol              |
| 92.26724 | 621647 | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | N-Nitrosodi-n-propylamine  |
| 92.26724 | 62759  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | N-Nitrosodimethylamine     |
| 92.26724 | 86306  | 2.6    | 0.78 | MG/KG | 4.9 | 0.5 | 12/02/92 | WARNING 2-3 SIG | N-Nitrosodiphenylamine     |
| 92.26724 | 87865  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Pentachlorophenol          |
| 92.26724 | 85018  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | Phenanthrene               |
| 92.26724 | 108952 | 1.8    | 0.54 | MG/KG | 4.6 | 0.5 | 12/02/92 | OUT OF CONTROL  | Phenol                     |
| 92.26724 | 129000 | 2.6    | 0.78 | MG/KG | 4.3 | 0.4 | 12/02/92 | UNDER CONTROL   | Pyrene                     |
| 92.26724 | 120821 | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 1,2,4-Trichlorobenzene     |
| 92.26724 | 95954  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,4,5-Trichlorophenol      |
| 92.26724 | 88062  | < 0.33 |      | MG/KG | 0.0 |     | 12/02/92 | UNDER CONTROL   | 2,4,6-Trichlorophenol      |
|          |        |        |      |       |     |     |          |                 |                            |

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### SURROGATE RESULTS FOR EPA SEMIVOLATILES

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| Surrogate | 1 | ⇒ | 2-Fluorophenol       | (CAS | ŧ | = | 367124)  |
|-----------|---|---|----------------------|------|---|---|----------|
| Surrogate | 2 | = | Phenol-d5            | (CAS | ŧ | = | 4165622) |
| Surrogate | 3 | = | Nitrobenzene-d5      | (CAS | ŧ | = | 4165600) |
| Surrogate | 4 | = | 2-Fluorobiphenyl     | (CAS | ŧ | = | 321608)  |
| Surrogate | 5 | = | 2,4,6-Tribromophenol | (CAS | ŧ | = | 118796)  |
| Surrogate | 6 | = | p-Terphenyl-d14      | (CAS | ŧ | = | )        |

| SAMPLE   |       |                   |             |             |             |             |             | COMPLETION |
|----------|-------|-------------------|-------------|-------------|-------------|-------------|-------------|------------|
| NUMBER   | UNITS | Surrogate 1       | Surrogate 2 | Surrogate 3 | Surrogate 4 | Surrogate 5 | Surrogate 6 | DATE       |
| 92.26406 | ¥     | 52.49             | 62.72       | 64.72       | 72.96       | 93.32       | 104.04      | 2-Dec-1992 |
| 92.26406 | *     | 57.35             | 63.24       | 62.46       | 71.9        | 90.99       | 100.28      | 2-Dec-1992 |
| 92.26677 | *     | 29.31             | 33.96       | 32.16       | 41.74       | 77.52       | 58.38       | 2-Dec-1992 |
| 92.26677 | *     | 32.05             | 38.16       | 42.12       | 56.64       | 61.47       | 102.82      | 9-Dec-1992 |
| 92.26677 | *     | 43.19             | 48.29       | 49.96       | 61.92       | 58.5        | 111.        | 9-Dec-1992 |
| 92.26678 | *     | 48.1              | 53.65       | 53.48       | 59.02       | 60.18       | 68.58       | 2-Dec-1992 |
| 92.26679 | *     | 30.54             | 41.02       | 35.92       | 51.92       | 64.68       | 75.86       | 2-Dec-1992 |
| 92.26680 | *     | 40.33             | 47.05       | 46.82       | 56.86       | 71.1        | 77.22       | 2-Dec-1992 |
| 92.26681 | *     | 23.82             | 28.52       | 26.44       | 37.84       | 51.49       | 70.96       | 2-Dec-1992 |
| 92.26682 | *     | 21.8 <del>9</del> | 26.75       | 25.92       | 38.9        | 41.32       | 47.74       | 2-Dec-1992 |
| 92.26683 | *     | 27.5              | 32.76       | 29.96       | 38.34       | 57.31       | 66.76       | 2-Dec-1992 |
| 92.26684 | *     | 45.               | 50.87       | 45.64       | 55.06       | 58.58       | 75.9        | 2-Dec-1992 |
| 92.26685 | *     | 25.32             | 33.08       | 29.14       | 49.7        | 51.62       | 63.16       | 2-Dec-1992 |
| 92.26686 | *     | 25.36             | 30.79       | 27.42       | 39.38       | 41.41       | 63.74       | 2-Dec-1992 |
| 92.26687 | *     | 26.81             | 33.19       | 31.42       | 41.6        | 43.75       | 49.4        | 2-Dec-1992 |
| 92.26688 | *     | 52.26             | 57.57       | 56.34       | 83.46       | 70.17       | 80.16       | 2-Dec-1992 |
| 92.26689 | *     | 33.48             | 43.71       | 41.4        | 68.28       | 74.16       | 90.96       | 2-Dec-1992 |
| 92.26690 | *     | 29.2              | 42.84       | 37.44       | 71.68       | 67.84       | 81.52       | 2-Dec-1992 |
| 92.26691 | *     | 47.48             | 54.52       | 54.48       | 78.8        | 64.36       | 98.48       | 2-Dec-1992 |
| 92.26692 | *     | 58.15             | 65.01       | 65.         | 73.44       | 83.47       | 97.68       | 2-Dec-1992 |
| 92.26693 | *     | 25.64             | 29.26       | 27.74       | 39.04       | 36.71       | 59.52       | 2-Dec-1992 |
| 92.26694 | *     | 50.51             | 65.95       | 66.82       | 74.92       | 70.49       | 88.96       | 2-Dec-1992 |
| 92.26695 | 18    | 21.63             | 26.25       | 23.18       | 33.76       | 40.94       | 69.46       | 2-Dec-1992 |
| 92.26696 | *     | 36.39             | 45.46       | 41.32       | 58.72       | 69.91       | 82.24       | 2-Dec-1992 |

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| SAMPLE   |       |             |             |             |             |             |             | COMPLETION |
|----------|-------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| NUMBER   | UNITS | Surrogate 1 | Surrogate 2 | Surrogate 3 | Surrogate 4 | Surrogate 5 | Surrogate 6 | DATE       |
| 92.26697 | *     | 7.75        | 21.94       | 15.3        | 45.2        | 78.17       | 72.36       | 2-Dec-1992 |
| 92.26698 | *     | 34.6        | 36.76       | 35.38       | 45.3        | 46.75       | 49.28       | 2-Dec-1992 |
| 2.26699  | *     | 24.         | 33.9        | 30.62       | 43.98       | 38.76       | 66.68       | 2-Dec-1992 |
| 2.26723  | *     | 28.8        | 33.58       | 32.16       | 46.86       | 71.45       | 82.74       | 2-Dec-1992 |
| 92.26724 | *     | 33.47       | 43.69       | 40.68       | 60.2        | 63.34       | 76.24       | 2-Dec-1992 |
| 2.26725  | *     | 42.18       | 46.4        | 48.66       | 52.76       | 63.53       | 74.38       | 2-Dec-1992 |
| 2.26726  | *     | 0.0         |             | 0.0         | 10.44       | 72.64       | 86.3        | 2-Dec~1992 |
| PA Limi  | ts:   |             |             |             |             |             |             |            |
| Water    | *     | 21 - 100    | 10 - 94     | 35 - 114    | 43 - 116    | 10 - 123    | 33 - 141    |            |
| Soil     | *     | 25 - 121    | 24 - 113    | 23 - 120    | 30 - 115    | 19 - 122    | 18 - 137    |            |

\*\*\*\*\* EM-Q OUALITY ASSUDANCE DEDODT \*\*\*\*\*

REPORT NUMBER: 16239

Reviewer

Date

maa Section Leader

QA Officer

Date

12/21/92 Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in

'Quality Assurance for Health and Environmental Chemistry: 1986, 'LA-11114-MS, pp. 3-4.



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TO: Philip R. Fresquez FROM: Kevin M. Cantrell, EM-9 Organic section THROUGH: Chris Leibman, EM-9 Organic section leader Anthony Lombardo, EM-9 Organic section  $\sum \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$ 

REQUEST NUMBER: 13503 MATRIX: Soil SUMMARY DATE: November 2, 1992

|              |                           | <b>1</b> '        |                |      |           |
|--------------|---------------------------|-------------------|----------------|------|-----------|
| SAMPLE<br>ID | TARGET COMPOUNDS<br>FOUND | AMOUNT<br>(ug/Kg) | LOQ<br>(ug/Kg) | TICs |           |
| 92.27504     | (Blank) NONE              | <330              | 330            | N    |           |
| 92.27505     | (Blank) NONE              | <330              | 330            | Y    |           |
| 92.27444     | NONE                      | <330              | 330            | Y    |           |
| 92.27445     | NONE                      | <660              | 660            | Y    |           |
| 92.27446     | NONE                      | <660              | 660            | N    | د ماهم 1  |
| 92.27447     | Di-n-butylphthalate       | 960               | 660            | Y    | < 3000ppn |
| 92.27448     | NONE                      | <330              | 330            | Y    | •••       |
| 92.27449     | NONE                      | <330              | 330            | Y    |           |
| 92.27450     | NONE                      | <1700             | 1700           | Y    |           |
| 92.27451     | NONE                      | <330              | 330            | Y    |           |
| 92.27452     | NONE                      | <1600             | 1600           | Y    |           |
| 92.27453     | NONE                      | <660              | 660            | Y    |           |
| 92.27454     | NONE                      | <330              | 330            | Y    |           |
| 92.27455     | NONE                      | <330              | 330            | Y    |           |
| 92.27456     | NONE                      | <330              | 330            | Y    |           |
| 92.27457     | NONE                      | <330              | 330            | Y    |           |
| 92.27458     | NONE                      | <330              | 330            | Y    |           |
| 92.27459     | NONE                      | <330              | 330            | Ŷ    |           |
| 92.27460     | Bis-2-ethylhexylphthalate | 390               | 330            | Ŷ    | 2 SUSPM   |
| 92.27461     | NONE                      | <660              | 660            | Ň    |           |
| 92.27462     | NONE                      | <330              | 330            | Ŷ    |           |
| 92.27463     | NONE                      | <330              | 330            | Ÿ    |           |
| 92.27464     | Phenanthrene              | 380               | 330            | v    |           |
|              | Rig-2-othulbovulphthalato | 2000              | 330            | v    | < 50 mm   |
| 74.403       | DID-2-CHYINEXYIPHCHAIALE  | 2000              | 220            | v    | - 2 - 4 4 |
| 92.2/466     | NONE                      | < 3 3 0           | 220            | T    |           |

LOQ: Limit Of Quantitation TICs: Tentatively identified compounds

Samples were extracted by mixing approximately 30 grams of sample with 60 grams of sodium sulfate and sonicating with 100 ml of methylene chloride. The methylene chloride was separated from the solids and sonication was repeated with two additional 100 ml aliquot of methylene chloride. Sample extracts were combined and concentrated to 1.0 ml final volume, except samples 92.27450 and 27452 which were concentrated to a final volume of 5 ml. Appropriate surrogate standards were added prior to extraction. Analysis was performed by capillary column GC/MS methods. Extraction and analysis methods

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are consistent with EPA SW-846 methods 3500 and 8270. Analytical column used was a J&W scientific DB5.625 30 M X .25 mm ID.

Samples 92.27447, 92.27460, 92.27464, and 92.27465 were found to contain HSL target compounds above the specified limit of quantitation(see above). Non-target peaks were not identified or quantitated for this request.

Surrogate recoveries were within EPA criteria for all analyses. Internal standard responses were low in several samples. These samples include 92.27450, 92.27455, 92.27457, 92.27460, 92.27463, 92.27464, and 92.27465. All of these samples were run twice in order to confirm matrix interference. All other internal standard responses were within EPA criteria.

All analytical hold times were met for this request. If you have any question regarding this data, please call either Anthony Lombardo or Laura Kelly at 667-5889.

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|                     |             |              | **          | ******            | *** EM· | -9 ANALYTICAL REP | ORT ***      | *******                                        |
|---------------------|-------------|--------------|-------------|-------------------|---------|-------------------|--------------|------------------------------------------------|
|                     |             |              | E           | EPA SEMIVOLATILES | S Pro   | epared by: LAK    | c            | on 16-Nov-1992                                 |
| REQUEST NUME        | IER: 13503  | B MATRI)     | (: SS ANAL  | YST: ANTHONY LO   | MBARDO  | PI                | ROGRAM CODE: | : M106 NOTEBOOK: R7336 PAGE: 145               |
| OWNER: Phil         | ip R. Fres  | squez        | GROUP: EM-8 | MAIL-STOP:        | K490 I  | PHONE: 7-0815     | TECHNIQU     | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |
| <u>Customer San</u> | nple Result | ts, Sample # | 92.27444    | Date Collected:   | 9/01/92 | Date Received:    | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 9/28/92 |
| CUSTOMER            | SAMPLE      |              | ANALYTICAL  | ANALYTICAL        |         | COMPLETION        |              | COMPOUND                                       |
| NUMBER              | NUMBER      | ANALYSIS     | RESULT      | UNCERTAINTY       | UNITS   | DATE              | COMMENT      | NAME                                           |
| PF-368-W-20         | 92.27444    | 83329        | < 330.      |                   | UG/KG   | 11/16/92          |              | Acenantthene                                   |
| PF-368-W-20         | 92.27444    | 208968       | < 330.      |                   | UG/KG   | 11/16/92          |              | Acenaphthylene                                 |
| PF-368-W-20         | 92,27444    | 62533        | < 330.      |                   | UG/KG   | 11/16/92          |              | Aniline                                        |
| PF-36B-W-20         | 92.27444    | 120127       | < 330.      |                   | UG/KG   | 11/16/92          |              | Anthracene                                     |
| PF-368-W-20         | 92.27444    | 103333       | < 330.      |                   | UG/KG   | 11/16/92          |              | Azobenzene                                     |
| PF-36B-W-20         | 92.27444    | 92875        | < 330.      |                   | UG/KG   | 11/16/92          |              | m-Renzidine                                    |
| PF-368-W-20         | 92.27444    | 56553        | < 330.      |                   | UG/KG   | 11/16/92          |              | Benzo[a]anthracene                             |
| PF-36B-W-20         | 92.27444    | 50328        | < 330.      |                   | UG/KG   | 11/16/92          |              | Benzo[a]pvrene                                 |
| PF-36B-W-20         | 92.27444    | 205992       | < 330.      |                   | UG/KG   | 11/16/92          |              | Benzo[b]fluoranthene                           |
| PF-36B-W-20         | 92.27444    | 191242       | < 330.      |                   | UG/KG   | 11/16/92          |              | Benzola, h. ilpervlene                         |
| PF-368-W-20         | 92.27444    | 207089       | < 330.      |                   | UG/KG   | 11/16/92          |              | Benzo[k]fluoranthene                           |
| PF-368-W-20         | 92.27444    | 65850        | < 330.      |                   | UG/KG   | 11/16/92          |              | Benzoic acid                                   |
| PF-368-W-20         | 92.27444    | 100516       | < 330.      |                   | UG/KG   | 11/16/92          |              | Benzyl alcohol                                 |
| PF-36B-W-20         | 92.27444    | 111911       | < 330.      |                   | UG/KG   | 11/16/92          |              | Bis(2-chloroethoxy)methane                     |
| PF-36B-W-20         | 92.27444    | 111444       | < 330.      |                   | UG/KG   | 11/16/92          |              | Bis(2-chloroethyl)ether                        |
| PF-36B-W-20         | 92.27444    | 108601       | < 330.      |                   | UG/KG   | 11/16/92          |              | Bis(2-chloroisopropyl)ether                    |
| PF-36B-W-20         | 92.27444    | 117817       | < 330.      |                   | UG/KG   | 11/16/92          |              | Bis(2-ethylhexyl)phthalate                     |
| PF-36B-W-20         | 92.27444    | 101553       | < 330.      |                   | UG/KG   | 11/16/92          |              | 4-Bromophenylphenyl ether                      |
| PF-368-W-20         | 92.27444    | 85687        | < 330.      |                   | UG/KG   | 11/16/92          |              | Butyl benzyl phthalate                         |
| PF-36B-W-20         | 92.27444    | 59507        | < 330.      |                   | UG/KG   | 11/16/92          |              | 4-Chloro-3-methylphenol                        |
| PF-36B-W-20         | 92.27444    | 106478       | < 330.      |                   | UG/KG   | 11/16/92          |              | 4-Chloroaniline                                |
| PF-36B-W-20         | 92.27444    | 91587        | < 330.      |                   | UG/KG   | 11/16/92          |              | 2-Chloronaphthalene                            |
| PF-36B-W-20         | 92.27444    | 95578        | < 330.      |                   | UG/KG   | 11/16/92          |              | o-Chlorophenol                                 |
| PF-36B-W-20         | 92.27444    | 7005723      | < 330.      |                   | UG/KG   | 11/16/92          |              | 4-Chlorophenylphenyl ether                     |
| PF-36B-W-20         | 92.27444    | 218019       | < 330.      |                   | UG/KG   | 11/16/92          |              | Chrysene                                       |
| PF-36B-W-20         | 92.27444    | 84742        | < 330.      |                   | UG/KG   | 11/16/92          |              | Di-n-butyl phthalate                           |

1. 1. 2

COMPOUND CUSTOMER SAMPLE ANALYTICAL ANALYTICAL COMPLETION NAME NUMBER NUMBER ANALYSIS RESULT UNCERTAINTY UNITS DATE COMMENT 11/16/92 Di-n-octyl phthalate UG/KG PF-36B-W-20 92.27444 117840 < 330. Dibenzo[a,h]anthracene < 330. UG/KG 11/16/92 PF-36B-W-20 92.27444 53703 Dibenzofuran < 330. UG/KG 11/16/92 PF-368-W-20 92.27444 132649 PF-36B-W-20 92.27444 95501 < 330. UG/KG 11/16/92 o-Dichlorobenzene (1,2) < 330. UG/KG 11/16/92 m-Dichlorobenzene (1,3) PF-36B-W-20 92.27444 541731 p-Dichlorobenzene (1,4) UG/KG 11/16/92 PF-36B-W-20 92.27444 106467 < 330. 3,3'-Dichlorobenzidine < 330. UG/KG 11/16/92 PF-36B-W-20 92.27444 91941 UG/KG 11/16/92 2,4-Dichlorophenol < 330. PF-368-W-20 92.27444 120832 Diethyl phthalate PF-36B-W-20 92.27444 84662 < 330. UG/KG 11/16/92 < 330. UG/KG 11/16/92 Dimethyl phthalate PF-36B-W-20 92.27444 131113 UG/KG 2.4-Dimethylphenol < 330. 11/16/92 PF-36B-W-20 92.27444 105679 UG/KG 11/16/92 2,4-Dinitrophenol PF-36B-W-20 92.27444 51285 < 330. UG/KG 11/16/92 2,4-Dinitrotoluene < 330. PF-36B-W-20 92.27444 121142 UG/KG 2.6-Dinitrotoluene < 330. 11/16/92 PF-36B-W-20 92.27444 606202 Fluoranthene PF-36B-W-20 92.27444 206440 < 330. UG/KG 11/16/92 < 330. UG/KG 11/16/92 Fluorene PF-36B-W-20 92.27444 86737 UG/KG 11/16/92 Hexachlorobenzene PF-36B-W-20 92.27444 118741 < 330. Hexachlorobutadiene UG/KG 11/16/92 < 330. PF-36B-W-20 92.27444 87683 < 330. UG/KG 11/16/92 Hexachlorocyclopentadiene PF-36B-W-20 92.27444 77474 Hexachioroethane UG/KG 11/16/92 PF-36B-W-20 92.27444 67721 < 330. Indeno[1,2,3-cd]pyrene 193395 < 330. UG/KG 11/16/92 PF-36B-W-20 92.27444 UG/KG 11/16/92 Isophorone PF-36B-W-20 92.27444 78591 < 330. UG/KG 11/16/92 2-Methyl-4,6-dinitrophenol PF-36B-W-20 92.27444 534521 < 330. UG/KG 11/16/92 2-Methylnaphthalene < 330. 91576 PF-36B-W-20 92.27444 UG/KG 11/16/92 2-Methvlphenol < 330. PF-36B-W-20 92.27444 95487 4-Methylphenol UG/KG 11/16/92 106445 < 330. PF-36B-W-20 92.27444 < 330. UG/KG 11/16/92 Naphthalene PF-36B-W-20 92.27444 91203 UG/KG 11/16/92 2-Nitroaniline 88744 < 330. PF-36B-W-20 92.27444 3-Nitroaniline UG/KG 11/16/92 < 330. PF-368-W-20 92.27444 99092 UG/KG 11/16/92 4-Nitroaniline < 330. PF-36B-W-20 92.27444 100016 UG/KG 11/16/92 Nitrobenzene 98953 < 330. PF-36B-W-20 92.27444 < 330. UG/KG 11/16/92 2-Nitrophenol PF-36B-W-20 92.27444 88755 UG/KG 4-Nitrophenol < 330. 11/16/92 100027 PF-36B-W-20 92.27444 UG/KG 11/16/92 N-Nitrosodi-n-propylamine < 330. PF-36B-W-20 92.27444 621647 N-Nitrosodimethylamine UG/KG 11/16/92 PF-368-W-20 92.27444 62759 < 330. (16/92 N-Nitrosodiphenylamine 86306 < 330. UG/KG PF-368-92.27444

EM-9 ANALYTICAL REPORT

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|                    |                  |          | ***                  | ****                      | *** EM- | 9 ANALYTICAL R | EPORT *** | *****                  |  |
|--------------------|------------------|----------|----------------------|---------------------------|---------|----------------|-----------|------------------------|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS   | COMPLETION     | COMMENT   | COMPOUND<br>NAME       |  |
|                    |                  |          |                      |                           |         |                |           |                        |  |
| PF-36B-W-20        | 92.27444         | 87865    | < 330.               |                           | UG/KG   | 11/16/92       |           | Pentachlorophenol      |  |
| PF-36B-W-20        | 92.27444         | 85018    | < 330.               |                           | UG/KG   | 11/16/92       |           | Phenanthrene           |  |
| PF-36B-W-20        | 92.27444         | 108952   | < 330.               |                           | UG/KG   | 11/16/92       |           | Phenol                 |  |
| PF-36B-W-20        | 92.27444         | 129000   | < 330.               |                           | UG/KG   | 11/16/92       |           | Pvrene                 |  |
| PF-368-W-20        | 92.27444         | 120821   | < 330.               |                           | UG/KG   | 11/16/92       |           | 1.2.4-Trichlorobenzene |  |
| PF-368-W-20        | 92.27444         | 95954    | < 330.               |                           | UG/KG   | 11/16/92       |           | 2.4.5-Trichlorophenol  |  |
| PF-368-W-20        | 92.27444         | 88062    | < 330.               |                           | UG/KG   | 11/16/92       |           | 2,4,6-Trichlorophenol  |  |

**4** 2

Tentatively Identified Compounds in Customer Sample # 92.27444

none

Page: 4

#### \*\*\*\*\* \*\*\*\*\* EM-9 ANALYTICAL REPORT

| <u>Matrix Spike</u> | e Results fo | r Sample # 92 | <u>.27444</u> Date | e Collected: | 9/01/92 | Date Received: | 9/02/92 | Date Extracted: | 9/14/92    | Date Analyzed: | 9/28/92 |
|---------------------|--------------|---------------|--------------------|--------------|---------|----------------|---------|-----------------|------------|----------------|---------|
| CUSTOMER            | SAMPLE       |               | AMOUNT             | AMOUNT       |         | COMPLETION     |         | COMPOUND        |            |                |         |
| NUMBER              | NUMBER       | ANALYSIS      | SPIKED             | RECOVERED    | UNITS   | DATE           | COMMENT | NAME            |            |                |         |
| PF-368-W-20         | 92.27444     | 83329         | 1740.34            | 890.         | UG/KG   | 11/16/92       |         | Acenaphthene    |            |                |         |
| PF-36B-W-20         | 92.27444     | 59507         | 3480.68            | 1700.        | UG/KG   | 11/16/92       |         | 4-Chloro-3-π    | ethylpheno | ι              |         |
| PF-368-W-20         | 92.27444     | 95578         | 3480.68            | 1300.        | UG/KG   | 11/16/92       |         | o-Chlorophen    | ol         |                |         |
| PF-36B-W-20         | 92.27444     | 106467        | 1740.34            | 620.         | UG/KG   | 11/16/92       |         | p-Dichlorobe    | nzene (1,4 | )              |         |
| PF-36B-W-20         | 92.27444     | 121142        | 1740.34            | 1100.        | UG/KG   | 11/16/92       |         | 2,4-Dinitrot    | oluene     |                |         |
| PF-36B-W-20         | 92.27444     | 100027        | 3480.68            | 1600.        | UG/KG   | 11/16/92       |         | 4-Nitropheno    | it.        |                |         |
| PF-36B-W-20         | 92.27444     | 621647        | 1740.34            | 680.         | UG/KG   | 11/16/92       |         | N-Nitrosodi-    | n-propylam | ine            |         |
| PF-36B-W-20         | 92.27444     | 87865         | 3480.68            | 2000.        | UG/KG   | 11/16/92       |         | Pentachlorop    | henol      |                |         |
| PF-36B-W-20         | 92.27444     | 108952        | 3480.68            | 1300.        | UG/KG   | 11/16/92       |         | Phenol          |            |                |         |
| PF-36B-W-20         | 92.27444     | 129000        | 1740.34            | 1200.        | UG/KG   | 11/16/92       |         | Pyrene          |            |                |         |
| PF-36B-W-20         | 92.27444     | 120821        | 1740.34            | 750.         | UG/KG   | 11/16/92       |         | 1,2,4-Trich     | orobenzene |                |         |

Matrix Spike Duplicate Results for Sample # 92.27444

Date Collected: 9/01/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 9/28/92

| CUSTOMER    | SAMPLE   |          | AMOUNT  | AMOUNT    |       | COMPLETION |         | COMPOUND                  |
|-------------|----------|----------|---------|-----------|-------|------------|---------|---------------------------|
| NUMBER      | NUMBER   | ANALYSIS | SPIKED  | RECOVERED | UNITS | DATE       | COMMENT | NAME                      |
| PF-36B-W-20 | 92.27444 | 83329    | 1748.98 | 1100.     | UG/KG | 11/16/92   |         | Acenaphthene              |
| PF-368-W-20 | 92.27444 | 59507    | 3497.96 | 2100.     | UG/KG | 11/16/92   |         | 4-Chloro-3-methylphenol   |
| PF-36B-W-20 | 92.27444 | 95578    | 3497.96 | 1500.     | UG/KG | 11/16/92   |         | o-Chlorophenol            |
| PF-36B-W-20 | 92.27444 | 106467   | 1748.98 | 810.      | UG/KG | 11/16/92   |         | p-Dichlorobenzene (1,4)   |
| PF-36B-W-20 | 92.27444 | 121142   | 1748.98 | 1300.     | UG/KG | 11/16/92   |         | 2,4-Dinitrotoluene        |
| PF-368-W-20 | 92.27444 | 100027   | 3497.96 | 2300.     | UG/KG | 11/16/92   |         | 4-Nitrophenol             |
| PF-36B-W-20 | 92.27444 | 621647   | 1748.98 | 940.      | UG/KG | 11/16/92   |         | N-Nitrosodi-n-propylamine |
| PF-36B-W-20 | 92.27444 | 87865    | 3497.96 | 2800.     | UG/KG | 11/16/92   |         | Pentachlorophenol         |
| PF-368-W-20 | 92.27444 | 108952   | 3497.96 | 1500.     | UG/KG | 11/16/92   |         | Phenol                    |
| PE-36B-W-20 | 92.27444 | 129000   | 1748.98 | 1600.     | UG/KG | 11/16/92   |         | Pyrene                    |
| PF-36B-W-20 | 92.27444 | 120821   | 1748.98 | 900.      | UG/KG | 11/16/92   |         | 1,2,4-Trichlorobenzene    |

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|          |               |              | ***1               | ****           | ** EM-  | 9 ANALYTICAL REP | ORT ****     | *****           | •                                |
|----------|---------------|--------------|--------------------|----------------|---------|------------------|--------------|-----------------|----------------------------------|
|          |               |              | EP/                | SEMIVOLATILES  | 5 Pre   | pared by: LAK    | a            | on 16-Nov-1992  |                                  |
| REQUEST  | NUMBER: 1350  | 3 MATRIX     | SS ANALYS          | ST: ANTHONY LO | MBARDO  | P                | ROGRAM CODE: | M106 NOTEBO     | DOK: R7336 PAGE: 145             |
| OWNER:   | Philip R. Fre | squez        | GROUP: EM-8        | MAIL-STOP:     | K490 P  | HONE: 7-0815     | TECHNIQUE    | : GCEC ANAL     | YTICAL PROCEDURE: EPA SW-846 3RD |
| Customer | Sample Resul  | ts, Sample # | <u>92.27445</u> Da | ate Collected: | 9/01/92 | Date Received:   | 9/02/92      | Date Extracted: | 9/14/92 Date Analyzed: 10/05/92  |
| CUSTOMER | SAMPLE        |              | ANALYTICAL         | ANALYTICAL     |         | COMPLETION       |              | COMPOUND        |                                  |
| NUMBER   | NUMBER        | ANALYSIS     | RESULT             | UNCERTAINTY    | UNITS   | DATE             | COMMENT      | NAME            |                                  |
| PF-36B-W | -40 92.27445  | 83329        | < 660.             |                | UG/KG   | 11/16/92         |              | Acenaphthene    | a                                |
| PF-36B-W | -40 92.27445  | 208968       | < 660.             |                | UG/KG   | 11/16/92         |              | Acenaphthyle    | -<br>• D.e                       |
| PF-36B-W | -40 92.27445  | 62533        | < 660.             |                | UG/KG   | 11/16/92         |              | Aniline         |                                  |
| PF-36B-W | -40 92.27445  | 120127       | < 660.             |                | UG/KG   | 11/16/92         |              | Anthracene      |                                  |
| PF-36B-W | -40 92.27445  | 103333       | < 660.             |                | UG/KG   | 11/16/92         |              | Azobenzene      |                                  |
| PF-36B-W | -40 92.27445  | 92875        | < 660.             |                | UG/KG   | 11/16/92         |              | m-Benzidine     |                                  |
| PF-368-W | -40 92.27445  | 56553        | < 660.             |                | UG/KG   | 11/16/92         |              | Benzo[a]anth    | Iracene                          |
| PF-368-W | -40 92.27445  | 50328        | < 660.             |                | UG/KG   | 11/16/92         |              | Benzo[a]pyre    | ene                              |
| PF-368-W | -40 92.27445  | 205992       | < 660.             |                | UG/KG   | 11/16/92         |              | Benzo[b]fluc    | pranthene                        |
| PF-368-W | -40 92.27445  | 191242       | < 660.             |                | UG/KG   | 11/16/92         |              | Benzo[g,h,i]    | perylene                         |
| PF-368-W | -40 92.27445  | 207089       | < 660.             |                | UG/KG   | 11/16/92         |              | Benzo[k]fluo    | pranthene                        |
| PF-36B-W | -40 92.27445  | 65850        | < 660.             |                | UG/KG   | 11/16/92         |              | Benzoic acid    | I                                |
| PF-36B-W | -40 92.27445  | 100516       | < 660.             |                | UG/KG   | 11/16/92         |              | Benzyl alcoh    | io l                             |
| PF-36B-W | -40 92.27445  | 111911       | < 660.             |                | UG/KG   | 11/16/92         |              | Bis(2-chloro    | pethoxy)methane                  |
| PF-36B-W | 1-40 92.27445 | 111444       | < 660.             |                | UG/KG   | 11/16/92         |              | Bis(2-chloro    | ethyl)ether                      |
| PF-36B-W | -40 92.27445  | 108601       | < 660.             |                | UG/KG   | 11/16/92         |              | Bis(2-chloro    | oisopropyl)ether                 |
| PF-36B-W | i-40 92.27445 | 117817       | < 660.             |                | UG/KG   | 11/16/92         |              | Bis(2-ethylh    | exyl)phthalate                   |
| PF-36B-W | -40 92.27445  | 101553       | < 660.             |                | UG/KG   | 11/16/92         |              | 4-Bromopheny    | lphenyl ether                    |
| PF-36B-W | 1-40 92.27445 | 85687        | < 660.             |                | UG/KG   | 11/16/92         |              | Butyl benzyl    | phthalate                        |
| PF-36B-W | 1-40 92.27445 | 59507        | < 660.             |                | UG/KG   | 11/16/92         |              | 4-Chloro-3-m    | nethy iphenol                    |
| PF-36B-W | -40 92.27445  | 106478       | < 660.             |                | UG/KG   | 11/16/92         |              | 4-Chloroanil    | ine                              |
| PF-368-W | 1-40 92.27445 | 91587        | < 660.             |                | UG/KG   | 11/16/92         |              | 2-Chloronaph    | thalene                          |
| PF-36B-W | 1-40 92.27445 | 95578        | < 660.             |                | UG/KG   | 11/16/92         |              | o-Chlorophen    | io l                             |
| PF-36B-W | 1-40 92.27445 | 7005723      | < 660.             |                | UG/KG   | 11/16/92         |              | 4-Chlorophen    | ylphenyl ether                   |
| PF-36B-W | 1-40 92.27445 | 218019       | < 660.             |                | UG/KG   | 11/16/92         |              | Chrysene        |                                  |
| PF-36B-W | 1-40 92.27445 | 84742        | < 660.             |                | UG/KG   | 11/16/92         |              | Di-n-butyl p    | hthalate                         |

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92.27445

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|             |                      |          | ***             | *****       | *** EM- | 9 ANALYTICAL RI | EPORT *** | *********                  |  |
|-------------|----------------------|----------|-----------------|-------------|---------|-----------------|-----------|----------------------------|--|
| CUSTOMER    | SAMPLE               |          | ANALYTICAL      | ANALYTICAL  |         | COMPLETION      |           | Compound                   |  |
| NUMBER      | NUMBER               | ANALYSIS | RESULT          | UNCERTAINTY | UNITS   | DATE            | COMMENT   | NAME                       |  |
| PF-36B-W-40 | 92.27445             | 117840   | < 660.          |             | UG/KG   | 11/16/92        |           | Di-n-octyl phthalate       |  |
| PF-36B-W-40 | 92.27445             | 53703    | < 660.          |             | UG/KG   | 11/16/92        |           | Dibenzo[a,h]anthracene     |  |
| PF-368-W-40 | 92.27445             | 132649   | < 660.          |             | UG/KG   | 11/16/92        |           | Dibenzofuran               |  |
| PF-368-W-40 | 92.27445             | 95501    | < 660.          |             | UG/KG   | 11/16/92        |           | o-Dichlorobenzene (1,2)    |  |
| PF-36B-W-40 | 92.27445             | 541731   | < 660.          |             | UG/KG   | 11/16/92        |           | m-Dichlorobenzene (1,3)    |  |
| PF-368-W-40 | 92.27445             | 106467   | < 660.          |             | UG/KG   | 11/16/92        |           | p-Dichlorobenzene (1,4)    |  |
| PF-36B-W-40 | 92.27445             | 91941    | < 660.          |             | UG/KG   | 11/16/92        |           | 3,3'-Dichlorobenzidine     |  |
| PF-36B-W-40 | 92.27445             | 120832   | < 660.          |             | UG/KG   | 11/16/92        |           | 2,4-Dichlorophenol         |  |
| PF-36B-W-40 | 92.27445             | 84662    | < 660.          |             | UG/KG   | 11/16/92        |           | Diethyl phthalate          |  |
| PF-368-W-40 | 92.27445             | 131113   | < 660.          |             | UG/KG   | 11/16/92        |           | Dimethyl phthalate         |  |
| PF-36B-W-40 | 92.27445             | 105679   | < 660.          |             | UG/KG   | 11/16/92        |           | 2,4-Dimethylphenol         |  |
| PF-368-W-40 | 92.27445             | 51285    | < 660.          |             | UG/KG   | 11/16/92        |           | 2.4-Dinitrophenol          |  |
| PF-36B-W-40 | 92.27445             | 121142   | < 660.          |             | UG/KG   | 11/16/92        |           | 2,4-Dinitrotoluene         |  |
| PF-368-W-40 | 92.27445             | 606202   | < 660.          |             | UG/KG   | 11/16/92        |           | 2,6-Dinitrotoluene         |  |
| PF-36B-W-40 | 92.27445             | 206440   | < 660.          |             | UG/KG   | 11/16/92        |           | Fluoranthene               |  |
| PF-36B-W-40 | 92.27445             | 86737    | < 660.          |             | UG/KG   | 11/16/92        |           | Fluorene                   |  |
| PF-36B-W-40 | 92.27445             | 118741   | < 660.          |             | UG/KG   | 11/16/92        |           | Hexachlorobenzene          |  |
| PF-368-W-40 | 92.27445             | 87683    | < 660.          |             | UG/KG   | 11/16/92        |           | Hexachlorobutadiene        |  |
| PF-368-W-40 | 92.27445             | 77474    | < 660.          |             | UG/KG   | 11/16/92        |           | Hexachlorocyclopentadiene  |  |
| PF-36B-W-40 | 92.27445             | 67721    | < 660.          |             | UG/KG   | 11/16/92        |           | Hexachloroethane           |  |
| PF-36B-W-40 | 92.27445             | 193395   | < 660.          |             | UG/KG   | 11/16/92        |           | Indeno[1,2,3~cd]pyrene     |  |
| PF-368-W-40 | 92.27445             | 78591    | < 660.          |             | UG/KG   | 11/16/92        |           | Isophorone                 |  |
| PF-36B-W-40 | 92.27445             | 534521   | < 660.          |             | UG/KG   | 11/16/92        |           | 2-Methyl-4,6-dinitrophenol |  |
| PF-368-W-40 | 92.27445             | 91576    | < 660.          |             | UG/KG   | 11/16/92        |           | 2-Methylnaphthalene        |  |
| PF-368-W-40 | 92.27445             | 95487    | < 660.          |             | UG/KG   | 11/16/92        |           | 2-Methylphenol             |  |
| PF-368-W-40 | 92.27445             | 106445   | < 660.          |             | UG/KG   | 11/16/92        |           | 4-Methylphenol             |  |
| PF-368-W-40 | 92.27445             | 91203    | < 660.          |             | UG /KG  | 11/16/92        |           | Naphthalene                |  |
| PE-368-W-40 | 92.27445             | 88744    | < 660.          |             | UG/KG   | 11/16/92        |           | 2-Nitroaniline             |  |
| PE-368-W-40 | 92 27445             | 99092    | < 660.          |             | UG/KG   | 11/16/92        |           | 3-Nitroaniline             |  |
| PF-368-W-40 | 92.27445             | 100016   | < 660           |             | UG /KG  | 11/16/92        |           | 4-Nitroaniline             |  |
| PE-368-W-40 | 92 27445             | 98953    | < 660           |             | UG/KG   | 11/16/92        |           | Nitrobenzene               |  |
| DE-360-W-40 | Q2 27445             | 88755    | < 660           |             | UG /KG  | 11/16/92        |           | 2-Nitrophenol              |  |
| DC-260-W-40 | 56.6/443<br>02 27//F | 100027   | < 660           |             |         | 11/16/02        |           | A-Nitrophenol              |  |
| PF-300-W-40 | 32.2/443<br>02 27445 | 621647   | < 660           |             |         | 11/16/02        |           | N-Nitrosodi-n-propylamine  |  |
| FF-308-W-40 | 92.2/443             | 62750    | < 000.<br>< 660 |             |         | 11/10/92        |           | N-Nitrosodinethylamino     |  |
| FF-308-W-40 | 92.2/440             | 06206    | < CCO           |             |         | 11 (16 /02      |           | N-Nitrosodinkenylamine     |  |
| PF=308=₩    | 5 92.2/445           | 00300    | < DOU.          |             | UG/KG   | 10/92           |           | N-NTCrosocipheny Lanine    |  |

No with

|                    |                  |          | ***                  | *****                     | *** EM     | -9 ANALYTICAL R    | EPORT *** | *****                  |
|--------------------|------------------|----------|----------------------|---------------------------|------------|--------------------|-----------|------------------------|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS      | COMPLETION<br>DATE | COMMENT   | COMPOUND               |
|                    |                  |          |                      |                           |            |                    |           |                        |
| PF-36B-W-40        | 92.27445         | 87865    | < 660.               |                           | UG/KG      | 11/16/92           |           | Pentachlorophenol      |
| PF-36B-W-40        | 92.27445         | 85018    | < 660.               |                           | UG/KG      | 11/16/92           |           | Phenanthrene           |
| PF-36B-W-40        | 92.27445         | 108952   | < 660.               |                           | UG/KG      | 11/16/92           |           | Phenol                 |
| PF-36B-W-40        | 92.27445         | 129000   | < 660.               |                           | UG/KG      | 11/16/92           |           | Pyrene                 |
| PF-368-W-40        | 92.27445         | 120821   | < 660.               |                           | UG/KG      | 11/16/92           |           | 1.2 4-Trichlarabenzene |
| PF-36B-W-40        | 92.27445         | 95954    | < 660.               |                           | ,<br>UG/KG | 11/16/92           |           | 2 4 5-Trichlorophenol  |
| PF-36B-W-40        | 92.27445         | 88062    | < 660.               |                           | UG/KG      | 11/16/92           |           | 2,4,6-Trichlorophenol  |

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Tentatively Identified Compounds in Customer Sample # 92.27445

none

|                     |            |                     | ***                                    | ******          | ** EM~  | 9 ANALYTICAL REPO | )RT *****    | ******                                          |
|---------------------|------------|---------------------|----------------------------------------|-----------------|---------|-------------------|--------------|-------------------------------------------------|
|                     |            |                     | EP                                     | A SEMIVOLATILES | Pre     | pared by: LAK     | or           | n 16-Nov-1992                                   |
| REQUEST NUMB        | ER: 13503  | MATRIX              | : SS ANALY                             | ST: ANTHONY LO  | MBARDO  | PI                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                  |
| OWNER: Phil         | ip R. Fres | quez                | GROUP: EM-8                            | MAIL-STOP:      | K490 P  | PHONE: 7-0815     | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |
| <u>Customer Sam</u> | ple Result | s <u>, Sample #</u> | <u>92.27446</u> D                      | ate Collected:  | 9/01/92 | Date Received:    | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 10/05/92 |
| CUSTOMER            | SAMPLE     |                     | ANALYTICAL                             | ANALYTICAL      |         | COMPLETION        |              | COMPOUND                                        |
| NUMBER              | NUMBER     | ANALYSIS            | RESULT                                 | UNCERTAINTY     | UNITS   | DATE              | COMMENT      | NAME                                            |
|                     |            |                     |                                        |                 |         |                   |              |                                                 |
| PF-36B-W-60         | 92.27446   | 83329               | < 660.                                 |                 | UG/KG   | 11/16/92          |              | Acenaphthene                                    |
| PF-368-W-60         | 92.27446   | 208968              | < 660.                                 |                 | UG/KG   | 11/16/92          |              | Acenaphthy lene                                 |
| PF-368-W-60         | 92.27446   | 62533               | < 660.                                 |                 | UG/KG   | 11/16/92          |              | Antiine                                         |
| PF-36B-W-60         | 92.27446   | 120127              | < 660.                                 |                 | UG/KG   | 11/16/92          |              | Anthracene                                      |
| PF-368-W-60         | 92.27446   | 103333              | < 660.                                 |                 | UG/KG   | 11/16/92          |              | Azobenzene                                      |
| PF-36B-W-60         | 92.27446   | 92875               | < 660.                                 |                 | UG/KG   | 11/16/92          |              | m-benzialanthracene                             |
| PF-36B-W-60         | 92.27446   | 56553               | < 660.                                 |                 | UG/KG   | 11/16/92          |              | Benzo[a]auturacene                              |
| PF-36B-W-60         | 92.27446   | 50328               | < 660.                                 |                 | UG/KG   | 11/16/92          |              | Benzo[b]fluoranthane                            |
| PF-36B-W-60         | 92.27446   | 205992              | < 660.                                 |                 |         | 11/10/92          |              | Benzo[g h i]nervlene                            |
| PF-368-W-60         | 92.27446   | 191242              | < 660.                                 |                 |         | 11/10/92          |              | Benzo[k]fluoranthene                            |
| PF-36B-W-60         | 92.27446   | 207089              | < 660.                                 |                 |         | 11/10/92          |              | Benzoic acid                                    |
| PF-36B-W-60         | 92.27446   | 65850               | < 660.                                 |                 |         | 11/16/92          |              | Benzvi alcohoi                                  |
| PF-36B-W-60         | 92.27446   | 100516              | < 660.                                 |                 |         | 11/16/92          |              | Bis(2-chioroethoxy)methane                      |
| PF-36B-W-60         | 92.27446   | 111911              | < 660                                  |                 |         | 11/16/92          |              | Bis(2-chloroethyl)ether                         |
| PF-36B-W-60         | 92.2/446   | 111444              | < 660                                  |                 |         | 11/16/92          |              | Bis(2-chloroisopropyl)ether                     |
| PF-368-W-60         | 92.2/440   | 117917              | < 660                                  |                 |         | 11/16/92          |              | Bis (2-ethylhexyl) phthalate                    |
| PF-368-W-60         | 92.2/440   | 101552              | < 660                                  |                 |         | 11/16/92          |              | 4-Bromophenylphenyl ether                       |
| PF-368-W-60         | 92.2/440   | 101555              | < 660                                  |                 | UG/KG   | 11/16/92          |              | Butyl benzyl phthalate                          |
| PF-368-W-60         | 92.2/440   | 50507               | < 660                                  |                 | UG/KG   | 11/16/92          |              | 4-Chloro-3-methylphenol                         |
| PF-368-W-60         | 92.27440   | 106478              | < 660                                  |                 | UG/KG   | 11/16/92          |              | 4-Chloroaniline                                 |
| PF-368-W-60         | 92.2/440   | 1004/0              | < 660                                  |                 | UG/KG   | 11/16/92          |              | 2-Chloronaphthalene                             |
| PT-308-W-60         | 92.2/440   | 9130/               | < 660                                  |                 | 1)G /KG | 11/16/92          |              | o-Chlorophenol                                  |
| PT-308-W-60         | 92.2/440   | 7005793             | < 660                                  |                 | UG/KG   | 11/16/92          |              | 4-Chlorophenylphenyl ether                      |
| PE-308-W-60         | 92.2/440   | 219010              | < 660                                  |                 |         | 11/16/92          |              | Chrysene                                        |
| PF-308-W-60         | 92.2/440   | 210013              | <ul> <li>000 -</li> <li>AAA</li> </ul> |                 |         | (16/92            |              | Di-n-butyl phthalate                            |
| PF-308-             | 92.2/440   | 07/42               | × 000.                                 |                 |         |                   |              |                                                 |

PF-36B-W-60 92.27446

PF-368-W-60 92.27446

PF-368-W-60 92.27446

PF-36B-W-60 92.27446

PF-368-W-60 92.27446

88755

100027

621647

62759

86306

< 660.

< 660.

< 660.

< 660.

SAMPLE ANALYTICAL ANALYTICAL CUSTOMER COMPLETION COMPOUND NUMBER NUMBER ANALYSIS RESULT UNCERTAINTY UNITS DATE COMMENT NAME PF-36B-W-60 92.27446 117840 < 660. UG/KG 11/16/92 Di-n-octyl phthalate PF-368-W-60 92.27446 53703 < 660. UG/KG 11/16/92 Dibenzo[a,h]anthracene PF-36B-W-60 92.27446 132649 < 660. UG/KG 11/16/92 Dibenzofuran PF-368-W-60 92.27446 95501 < 660. UG/KG 11/16/92 o-Dichlorobenzene (1,2) PF-36B-W-60 92.27446 541731 < 660. UG/KG 11/16/92 m-Dichlorobenzene (1,3) PF-368-W-60 92.27446 106467 < 660. UG/KG 11/16/92 p-Dichlorobenzene (1,4) PF-368-W-60 92.27446 91941 < 660. UG/KG 11/16/92 3.3'-Dichlorobenzidine UG/KG PF-36B-W-60 92.27446 120832 < 660. 11/16/92 2,4-Dichlorophenol UG/KG PF-36B-W-60 92.27446 84662 < 660. 11/16/92 Diethyl phthalate UG/KG PF-36B-W-60 92.27446 131113 < 660. 11/16/92 Dimethyl phthalate PF-368-W-60 92.27446 105679 < 660. UG/KG 11/16/92 2,4-Dimethylphenol 92.27446 51285 < 660. UG/KG 11/16/92 PF-36B-W-60 2,4-Dinitrophenol PF-36B-W-60 92.27446 121142 < 660. UG/KG 11/16/92 2.4-Dinitrotoluene UG/KG 11/16/92 92.27446 606202 < 660. 2,6-Dinitrotoluene PF-368-W-60 UG/KG 11/16/92 PF-368-W-60 92.27446 206440 < 660. Fluoranthene PF-368-W-60 92.27446 86737 < 660. UG/KG 11/16/92 Fluorene PF-36B-W-60 92.27446 118741 < 660. UG/KG 11/16/92 Hexachlorobenzene UG/KG 11/16/92 PF-36B-W-60 92.27446 87683 < 660. Hexachlorobutadiene PF-36B-W-60 92.27446 77474 < 660. UG/KG 11/16/92 **Hexachlorocyclopentadiene** UG/KG 11/16/92 PF-368-W-60 92.27446 67721 < 660. **Hexachloroethane** UG/KG PF-36B-W-60 92.27446 193395 < 660. 11/16/92 Indeno[1,2,3-cd]pyrene PF-36B-W-60 92.27446 78591 < 660. UG/KG 11/16/92 Isophorone PF-36B-W-60 92.27446 534521 < 660. UG/KG 11/16/92 2-Methyl-4,6-dinitrophenol UG/KG 11/16/92 PF-368-W-60 92.27446 91576 < 660. 2-Methylnaphthalene < 660. UG/KG 11/16/92 2-Methylphenol PF-36B-W-60 92.27446 95487 < 660. UG/KG 11/16/92 4-Methylphenol PF-368-W-60 92.27446 106445 PF-368-W-60 92.27446 91203 < 660. UG/KG 11/16/92 Naphthalene PF-368-W-60 92.27446 88744 < 660. UG/KG 11/16/92 2-Nitroaniline PF-36B-W-60 92.27446 UG/KG 11/16/92 3-Nitroaniline 99092 < 660. 100016 < 660. UG/KG 11/16/92 4-Nitroaniline PF-36B-W-60 92.27446 UG/KG PF-368-W-60 92.27446 < 660. 11/16/92 Nitrobenzene 98953

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

UG/KG

UG/KG

UG/KG

UG/KG

UG/KG

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**EM-9 ANALYTICAL REPORT** 

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2-Nitrophenol

4-Nitrophenol

N-Nitrosodi-n-propylamine

N-Nitrosodimethylamine

N-Nitrosodiphenylamine

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PF-36B-W-60 92.27446

|             |                  |          | ***                  | *****                     | *** EM- | 9 ANALYTICAL RI | EPORT *** | *****                  |  |
|-------------|------------------|----------|----------------------|---------------------------|---------|-----------------|-----------|------------------------|--|
| CUSTOMER    | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS   | COMPLETION      | COMMENT   | COMPOUND<br>NAME       |  |
|             |                  |          |                      |                           |         |                 |           |                        |  |
| PF-36B-W-60 | 92.27446         | 87865    | < 660.               |                           | UG/KG   | 11/16/92        |           | Pentachlorophenol      |  |
| PF-368-W-60 | 92.27446         | 85018    | < 660.               |                           | UG/KG   | 11/16/92        |           | Phenanthrene           |  |
| PF-36B-W-60 | 92.27446         | 108952   | < 660.               | ·                         | UG/KG   | 11/16/92        |           | Pheno l                |  |
| PF-368-W-60 | 92.27446         | 129000   | < 660.               |                           | UG/KG   | 11/16/92        |           | Pyrene                 |  |
| PF-368-W-60 | 92.27446         | 120821   | < 660.               |                           | UG/KG   | 11/16/92        |           | 1,2,4-Trichlorobenzene |  |
| PF-36B-W-60 | 92.27446         | 95954    | < 660.               |                           | UG/KG   | 11/16/92        |           | 2,4,5-Trichlorophenol  |  |

11/16/92

UG/KG

2,4,6-Trichlorophenol

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Tentatively Identified Compounds in Customer Sample # 92.27446

< 660.

88062

none

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|          |                 |              | ****         | *****         | ** EM-     | 9 ANALYTICAL REPO | ORT ****     | ******                                          |
|----------|-----------------|--------------|--------------|---------------|------------|-------------------|--------------|-------------------------------------------------|
| <u></u>  |                 |              | EPA          | SEMIVOLATILES | : Pre      | epared by: LAK    | (            | on 16-Nov-1992                                  |
| REQUEST  | NUMBER: 13503   | B MATRI      | X: SS ANALYS | T: ANTHONY LO | MBARDO     | PI                | ROGRAM CODE: | : M106 NOTEBOOK: R7336 PAGE: 145                |
| OWNER:   | Philip R. Fres  | squez        | GROUP: EM-8  | MAIL-STOP:    | K490 F     | PHONE: 7-0815     | TECHNIQUE    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |
| Custome  | r Sample Result | ts, Sample i | 92.27447 Da  | te Collected: | 9/01/92    | Date Received:    | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 10/05/92 |
| CUSTOME  | R SAMPLE        |              | ANALYTICAL   | ANALYTICAL    |            | COMPLETION        |              | COMPOUND                                        |
| NUMBER   | NUMBER          | ANALYSIS     | RESULT       | UNCERTAINTY   | UNITS      | DATE              | COMMENT      | NAME                                            |
| PF-368-  | W-100 92.27447  | 83329        | < 660.       |               | UG/KG      | 11/16/92          |              | Acenaphthene                                    |
| PF-368-1 | W-100 92.27447  | 208968       | < 660.       |               | UG/KG      | 11/16/92          |              | Acenaphthylene                                  |
| PE-368-  | W-100 92.27447  | 62533        | < 660.       |               | UG/KG      | 11/16/92          |              | Aniline                                         |
| PE-368-  | W-100 92.27447  | 120127       | < 660.       |               | ,<br>UG/KG | 11/16/92          |              | Anthracene                                      |
| PF-36B-  | W-100 92.27447  | 103333       | < 660.       |               | UG/KG      | 11/16/92          |              | Azobenzene                                      |
| PF-36B-  | W-100 92.27447  | 92875        | < 660.       |               | UG/KG      | 11/16/92          |              | m-Benzidine                                     |
| PF-36B-  | W-100 92.27447  | 56553        | < 660.       |               | UG/KG      | 11/16/92          |              | Benzo[a]anthracene                              |
| PF-368-  | W-100 92.27447  | 50328        | < 660.       |               | UG/KG      | 11/16/92          |              | Benzo[a]pyrene                                  |
| PF-36B-  | W-100 92.27447  | 205992       | < 660.       |               | UG/KG      | 11/16/92          |              | Benzo[b]fluoranthene                            |
| PF-368-  | W-100 92.27447  | 191242       | < 660.       |               | UG/KG      | 11/16/92          |              | Benzo[g,h,i]perylene                            |
| PF-36B-  | W-100 92.27447  | 207089       | < 660.       |               | UG/KG      | 11/16/92          |              | Benzo[k]fluoranthene                            |
| PF-36B-  | W-100 92.27447  | 65850        | < 660.       |               | UG/KG      | 11/16/92          |              | Benzoic acid                                    |
| PF-368-  | W-100 92.27447  | 100516       | < 660.       |               | UG/KG      | 11/16/92          |              | Benzyl alcohol                                  |
| PF-36B-  | W-100 92.27447  | 111911       | < 660.       |               | UG/KG      | 11/16/92          |              | Bis(2-chloroethoxy)methane                      |
| PF-368-  | W-100 92.27447  | 111444       | < 660.       |               | UG/KG      | 11/16/92          |              | Bis(2-chloroethyl)ether                         |
| PF-368-  | W-100 92.27447  | 108601       | < 660.       |               | UG/KG      | 11/16/92          |              | Bis(2-chloroisopropyl)ether                     |
| PF-368-  | W-100 92.27447  | 117817       | < 660.       |               | UG/KG      | 11/16/92          |              | Bis(2-ethylhexyl)phthalate                      |
| PF-36B-  | W-100 92.27447  | 101553       | < 660.       |               | UG/KG      | 11/16/92          |              | 4-Bromophenylphenyl ether                       |
| PF-36B-  | W-100 92.27447  | 85687        | < 660.       |               | UG/KG      | 11/16/92          |              | Butyl benzyl phthalate                          |
| PF-36B-  | W-100 92.27447  | 59507        | < 660.       |               | UG/KG      | 11/16/92          |              | 4-Chloro-3-methylphenol                         |
| PF-368-  | W-100 92.27447  | 106478       | < 660.       |               | UG/KG      | 11/16/92          |              | 4-Chloroaniline                                 |
| PF-36B-  | W-100 92.27447  | 91587        | < 660.       |               | UG/KG      | 11/16/92          |              | 2-Chloronaphthalene                             |
| PF-36B-  | W-100 92.27447  | 95578        | < 660.       |               | UG/KG      | 11/16/92          |              | o-Ch loropheno l                                |
| PF-36B-  | W-100 92.27447  | 7005723      | < 660.       |               | UG/KG      | 11/16/92          |              | 4-Chlorophenylphenyl ether                      |
| PF-368-  | W-100 92.27447  | 218019       | < 660.       |               | UG/KG      | 11/16/92          |              | Chrysene                                        |
| PF-36B-  | W-100 92.27447  | 84742        | 960.         | 288.          | UG/KG      | 11/16/92          |              | Di-n-butyl phthalate                            |

|              | SAMPLE   | ANALVSTS  | ANALYTICAL | ANALYTICAL  |       |          | COMMENT | COMPOUND                   |  |
|--------------|----------|-----------|------------|-------------|-------|----------|---------|----------------------------|--|
| NONDER       | NONDER   | ANAL 1313 | REJUET     | UNCERTAINTY | 00113 | DATE     | COMMENT | NAME                       |  |
| PF-368-W-100 | 92.27447 | 117840    | < 660.     |             | UG/KG | 11/16/92 |         | Di-n-octyl phthalate       |  |
| PF-368-W-100 | 92.27447 | 53703     | < 660.     |             | UG/KG | 11/16/92 |         | Dibenzo[a,h]anthracene     |  |
| PF-368-W-100 | 92.27447 | 132649    | < 660.     |             | UG/KG | 11/16/92 |         | Dibenzofuran               |  |
| PF-368-W-100 | 92.27447 | 95501     | < 660.     |             | UG/KG | 11/16/92 |         | o-Dichlorobenzene (1,2)    |  |
| PF-36B-W-100 | 92.27447 | 541731    | < 660.     |             | UG/KG | 11/16/92 |         | m-Dichlorobenzene (1,3)    |  |
| PF-36B-W-100 | 92.27447 | 106467    | < 660.     |             | UG/KG | 11/16/92 |         | p-Dichlorobenzene (1,4)    |  |
| PF-36B-W-100 | 92.27447 | 91941     | < 660.     |             | UG/KG | 11/16/92 |         | 3,3'-Dichlorobenzidine     |  |
| PF-368-W-100 | 92.27447 | 120832    | < 660.     |             | UG/KG | 11/16/92 |         | 2,4-Dichlorophenol         |  |
| PF-368-W-100 | 92.27447 | 84662     | < 660.     |             | UG/KG | 11/16/92 |         | Diethyl phthalate          |  |
| PF-368-W-100 | 92.27447 | 131113    | < 660.     |             | UG/KG | 11/16/92 |         | Dimethyl phthalate         |  |
| PF-368-W-100 | 92.27447 | 105679    | < 660.     |             | UG/KG | 11/16/92 |         | 2,4-Dimethylphenol         |  |
| PF-368-W-100 | 92.27447 | 51285     | < 660.     |             | UG/KG | 11/16/92 |         | 2,4-Dinitrophenol          |  |
| PF-36B-W-100 | 92.27447 | 121142    | < 660.     |             | UG/KG | 11/16/92 |         | 2,4-Dinitrotoluene         |  |
| PF-368-W-100 | 92.27447 | 606202    | < 660.     |             | UG/KG | 11/16/92 |         | 2,6-Dinitrotoluene         |  |
| PF-36B-W-100 | 92.27447 | 206440    | < 660.     |             | UG/KG | 11/16/92 |         | Fluoranthene               |  |
| PF-36B-W-100 | 92.27447 | 86737     | < 660.     |             | UG/KG | 11/16/92 |         | Fluorene                   |  |
| PF-368-W-100 | 92.27447 | 118741    | < 660.     |             | UG/KG | 11/16/92 |         | Hexachlorobenzene          |  |
| PF-36B-W-100 | 92.27447 | 87683     | < 660.     |             | UG/KG | 11/16/92 |         | Hexachlorobutadiene        |  |
| PF-368-W-100 | 92.27447 | 77474     | < 660.     |             | UG/KG | 11/16/92 |         | Hexachlorocyclopentadiene  |  |
| PF-36B-W-100 | 92.27447 | 67721     | < 660.     |             | UG/KG | 11/16/92 |         | Hexachloroethane           |  |
| PF-36B-W-100 | 92.27447 | 193395    | < 660.     |             | UG/KG | 11/16/92 |         | Indeno[1,2,3-cd]pyrene     |  |
| PF-36B-W-100 | 92.27447 | 78591     | < 660.     |             | UG/KG | 11/16/92 |         | Isophorone                 |  |
| PF-36B-W-100 | 92.27447 | 534521    | < 660.     |             | UG/KG | 11/16/92 |         | 2-Methyl-4,6-dinitrophenol |  |
| PF-368-W-100 | 92.27447 | 91576     | < 660.     |             | UG/KG | 11/16/92 |         | 2-Methylnaphthalene        |  |
| PF-368-W-100 | 92.27447 | 95487     | < 660.     |             | UG/KG | 11/16/92 |         | 2-Methylphenol             |  |
| PF-36B-W-100 | 92.27447 | 106445    | < 660.     |             | UG/KG | 11/16/92 |         | 4-Methylphenol             |  |
| PF-368-W-100 | 92.27447 | 91203     | < 660.     |             | UG/KG | 11/16/92 |         | Naphthalene                |  |
| PF-36B-W-100 | 92.27447 | 88744     | < 660.     |             | UG/KG | 11/16/92 |         | 2-Nitroaniline             |  |
| PF-36B-W-100 | 92.27447 | 99092     | < 660.     |             | UG/KG | 11/16/92 |         | 3-Nitroaniline             |  |
| PF-36B-W-100 | 92.27447 | 100016    | < 660.     |             | UG/KG | 11/16/92 |         | 4-Nitroaniline             |  |
| PF-36B-W-100 | 92.27447 | 98953     | < 660.     |             | UG/KG | 11/16/92 |         | Nitrobenzene               |  |
| PF-368-W-100 | 92.27447 | 88755     | < 660.     |             | UG/KG | 11/16/92 |         | 2-Nitrophenol              |  |
| PF-36B-W-100 | 92.27447 | 100027    | < 660.     |             | UG/KG | 11/16/92 |         | 4-Nitrophenol              |  |
| PF-36B-W-100 | 92.27447 | 621647    | < 660.     |             | UG/KG | 11/16/92 |         | N-Nitrosodi-n-propylamine  |  |
| PF-368-W-100 | 92.27447 | 62759     | < 660.     |             | UG/KG | 11/16/92 |         | N-Nitrosodimethylamine     |  |
| PF-368-1     | 92.27447 | 86306     | < 660.     |             | UG/KG | (16/92   |         | N-Nitrosodiphenylamine     |  |

EM-9 ANALYTICAL REPORT

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|--------------|----------|----------|------------|-------------|---------|-----------------|-----------|------------------------|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION      |           | COMPOUND               |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE            | COMMENT   | NAME                   |  |
| PF-36B-W-100 | 92.27447 | 87865    | < 660.     |             | UG/KG   | 11/16/92        |           | Pentachlorophenol      |  |
| PF-36B-W-100 | 92.27447 | 85018    | < 660.     |             | UG/KG   | 11/16/92        |           | Phenanthrene           |  |
| PF-36B-W-100 | 92.27447 | 108952   | < 660.     |             | UG/KG   | 11/16/92        |           | Phenol                 |  |
| PF-36B-W-100 | 92.27447 | 129000   | < 660.     |             | UG/KG   | 11/16/92        |           | Pyrene                 |  |
| PF-368-W-100 | 92.27447 | 120821   | < 660.     |             | UG/KG   | 11/16/92        |           | 1,2,4-Trichlorobenzene |  |
| PF-36B-W-100 | 92.27447 | 95954    | < 660.     |             | UG/KG   | 11/16/92        |           | 2,4,5-Trichlorophenol  |  |
| PF-36B-W-100 | 92.27447 | 88062    | < 660.     |             | UG/KG   | 11/16/92        |           | 2,4,6-Trichlorophenol  |  |

Tentatively Identified Compounds in Customer Sample # 92.27447

none

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\*\*\*\*\*\* EM-9 ANALYTICAL REPORT \*\*\*\*\* on 16-Nov-1992 EPA SEMIVOLATILES Prepared by: LAK **REQUEST NUMBER: 13503** MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 145 TECHNIQUE: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD **OWNER:** Philip R. Fresquez GROUP: EM-8 MAIL-STOP: K490 PHONE: 7-0815 Date Collected: 9/01/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 9/24/92 Customer Sample Results, Sample # 92.27448 COMPOUND CUSTOMER SAMPLE ANALYTICAL ANALYTICAL COMPLETION RESULT UNCERTAINTY UNITS DATE COMMENT NAME NUMBER NUMBER ANALYSIS 11/16/92 Acenaphthene 83329 < 330. UG/KG PF-36B-W-150 92.27448 < 330. UG/KG 11/16/92 Acenaphthylene 208968 PF-36B-W-150 92.27448 Aniline UG/KG 11/16/92 PF-368-W-150 92.27448 62533 < 330. PF-36B-W-150 92.27448 120127 < 330. UG/KG 11/16/92 Anthracene < 330. UG/KG 11/16/92 Azobenzene PF-368-W-150 92.27448 103333 UG/KG 11/16/92 m-Benzidine < 330. PF-36B-W-150 92.27448 92875 11/16/92 Benzo[a]anthracene 56553 < 330. UG/KG PF-36B-W-150 92.27448 11/16/92 UG/KG Benzo[a]pyrene < 330. PF-368-W-150 92.27448 50328 11/16/92 Benzo[b]fluoranthene UG/KG PF-36B-W-150 92.27448 205992 < 330. Benzo[g,h,i]perylene 191242 < 330. UG/KG 11/16/92 PF-36B-W-150 92.27448 207089 < 330. UG/KG 11/16/92 Benzo[k]fluoranthene PF-36B-W-150 92.27448 Benzoic acid 65850 < 330. UG/KG 11/16/92 PF-36B-W-150 92.27448 11/16/92 Benzyl alcohol < 330. UG/KG 100516 PF-368-W-150 92.27448 UG/KG 11/16/92 Bis(2-chloroethoxy)methane < 330. PF-36B-W-150 92.27448 111911 Bis(2-chloroethyl)ether UG/KG 11/16/92 PF-36B-W-150 92.27448 111444 < 330. < 330. UG/KG 11/16/92 Bis(2-chloroisopropyl)ether PF-36B-W-150 92.27448 108601 UG/KG 11/16/92 Bis(2-ethylhexyl)phthalate 117817 < 330. PF-36B-W-150 92.27448 4-Bromophenylphenyl ether < 330. UG/KG 11/16/92 101553 PF-36B-W-150 92.27448 UG/KG 11/16/92 Butyl benzyl phthalate < 330. PF-36B-W-150 92.27448 85687 4-Chioro-3-methylphenot 11/16/92 PF-36B-W-150 92.27448 59507 < 330. UG / KG < 330. UG/KG 11/16/92 4-Chloroaniline PF-36B-W-150 92.27448 106478 UG/KG 11/16/92 2-Chloronaphthalene 91587 < 330. PF-36B-W-150 92.27448 UG/KG 11/16/92 o-Chlorophenol < 330. PF-36B-W-150 92.27448 95578 4-Chlorophenylphenyl ether UG/KG 11/16/92 < 330. PF-368-W-150 92.27448 7005723 218019 < 330. UG/KG 11/16/92 Chrysene PF-36B-W-150 92.27448 < 330. UG/KG /16/92 Di-n-butyl phthalate 0 92.27448 84742 PF-368

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EM-9 ANALYTICAL REPORT

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| NMBRNMBRNALYSISRESULUNCERTAINTYUNTSDATECOMMENTNAMEPF-369-1-15092.2744117400< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274453703< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274455701< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274455701< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274410467< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274410467< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274410467< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274410467< 330.UK/KG11/16/2Disn-actyl phtalatePF-369-1-15092.274410457< 330.UK/KG11/16/2Qiethyl phtalatePF-369-1-15092.274410457< 330.UK/KG11/16/2Qiethyl phtalatePF-369-1-15092.274410567< 330.UK/KG11/16/2Qiethyl phtalatePF-369-1-15092.274410567< 330.UK/KG11/16/2Qiethyl phtalatePF-369-1-15092.274410567< 330.UK/KG11/16/2Qiethyl phtalatePF-369-1-15092.274410567< 330.UK/KG11/16/2HacklorobactarePF-369-1-15092.274410571 <th>CUSTOMER</th> <th>SAMPLE</th> <th></th> <th>ANALYTICAL</th> <th>ANALYTICAL</th> <th></th> <th>COMPLETION</th> <th></th> <th>COMPOUND</th>                                                                                                                                                                                                                                                                                                 | CUSTOMER     | SAMPLE   |          | ANALYTICAL     | ANALYTICAL  |            | COMPLETION |         | COMPOUND                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------|----------------|-------------|------------|------------|---------|----------------------------|
| PF-368-W-150       92.27448       117640       < 330.       UG/KG       11/16/92       Difenzofuran         PF-368-W-150       92.27448       132649       < 330.       UG/KG       11/16/92       Difenzofuran         PF-368-W-150       92.27448       5401       < 330.       UG/KG       11/16/92       orbichtorobenzee (1,2)         PF-368-W-150       92.27448       54171       < 330.       UG/KG       11/16/92       orbichtorobenzee (1,4)         PF-368-W-150       92.27448       106467       < 330.       UG/KG       11/16/92       p-10thlorobenzee (1,4)         PF-368-W-150       92.27448       106467       < 330.       UG/KG       11/16/92       g-10thlorobenzee (1,4)         PF-368-W-150       92.27448       1941       < 330.       UG/KG       11/16/92       2,4-Dichtorobenzee (1,4)         PF-368-W-150       92.27448       13113       < 330.       UG/KG       11/16/92       2,4-Dichtorobenzee (1,4)         PF-368-W-150       92.27448       13113       < 330.       UG/KG       11/16/92       2,4-Dichtorobenzee (1,4)         PF-368-W-150       92.27448       13113       < 330.       UG/KG       11/16/92       2,4-Dinitrotoluene         PF-368-W-150       92.27448       16620 <th>NUMBER</th> <th>NUMBER</th> <th>ANALYSIS</th> <th>RESULT</th> <th>UNCERTAINTY</th> <th>UNITS</th> <th>DATE</th> <th>COMMENT</th> <th>NAME</th> | NUMBER       | NUMBER   | ANALYSIS | RESULT         | UNCERTAINTY | UNITS      | DATE       | COMMENT | NAME                       |
| PF-366+F150       92.27448       117840       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |          |          |                |             |            |            |         |                            |
| PF-366+F150       92.2744       53703       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PF-36B-W-150 | 92.27448 | 117840   | < 330.         |             | UG/KG      | 11/16/92   |         | Di-n-octyl phthalate       |
| PF-368-W-150       92.27448       132649       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-368-W-150 | 92.27448 | 53703    | < 330.         |             | UG/KG      | 11/16/92   |         | Dibenzo[a,h]anthracene     |
| PF-368-W-150       92.27448       95501       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-36B-W-150 | 92.27448 | 132649   | < 330.         |             | UG/KG      | 11/16/92   |         | Dibenzofuran               |
| PF-368-W-150       92.27448       54171       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-368-W-150 | 92.27448 | 95501    | < 330.         |             | UG/KG      | 11/16/92   |         | o-Dichlorobenzene (1,2)    |
| PF-368-W-150       92.27448       10467       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-368-W-150 | 92.27448 | 541731   | < 330.         |             | UG/KG      | 11/16/92   |         | m-Dichlorobenzene (1,3)    |
| PF-368-W-150       92.27448       91941       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-368-W-150 | 92.27448 | 106467   | < 330.         |             | UG/KG      | 11/16/92   |         | p-Dichlorobenzene (1,4)    |
| PF-368-W-150       92.27448       120832       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-368-W-150 | 92.27448 | 91941    | < 330.         |             | UG/KG      | 11/16/92   |         | 3,3'-Dichlorobenzidine     |
| PF-368-W150       92.27448       84662       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PF-368-W-150 | 92.27448 | 120832   | < 330.         |             | UG/KG      | 11/16/92   |         | 2,4-Dichlorophenol         |
| PF-368-W-150       92.27448       131113       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 84662    | < 330.         |             | UG/KG      | 11/16/92   |         | Diethyl phthalate          |
| PF-368-W-150       92.27448       105679       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 131113   | < 330.         |             | UG/KG      | 11/16/92   |         | Dimethyl phthalate         |
| PF-368-W-150       92.27448       51285       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-36B-W-150 | 92.27448 | 105679   | < 330.         |             | UG/KG      | 11/16/92   |         | 2,4-Dimethylphenol         |
| PF-368-W-150       92.27448       121142       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 51285    | < 330.         |             | UG/KG      | 11/16/92   |         | 2,4-Dinitrophenol          |
| PF-368-W-150       92.27448       606202       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 121142   | < 330.         |             | UG/KG      | 11/16/92   |         | 2,4-Dinitrotoluene         |
| PF-368-w-150       92.27448       206440       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 606202   | < 330.         |             | UG/KG      | 11/16/92   |         | 2,6-Dinitrotoluene         |
| PF-36B-W-150       92.27448       86737       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-368-W-150 | 92.27448 | 206440   | < 330.         |             | UG/KG      | 11/16/92   |         | Fluoranthene               |
| PF-368-W-150       92.27448       118741       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 86737    | < 330.         |             | UG/KG      | 11/16/92   |         | Fluorene                   |
| PF-368-W-150       92.27448       87683       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-368-W-150 | 92.27448 | 118741   | < 330.         |             | UG/KG      | 11/16/92   |         | Hexachlorobenzene          |
| PF-36B-W-150       92.27448       77474       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-36B-W-150 | 92.27448 | 87683    | < 330.         |             | UG/KG      | 11/16/92   |         | Hexachlorobutadiene        |
| PF-36B-W-150       92.27448       67721       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-368-W-150 | 92.27448 | 77474    | < 330.         |             | UG/KG      | 11/16/92   |         | Hexachlorocyclopentadiene  |
| PF-36B-W-150       92.27448       193395       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-368-W-150 | 92.27448 | 67721    | < 330.         |             | UG/KG      | 11/16/92   |         | Hexachloroethane           |
| PF-36B-W-150       92.27448       78591       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-368-W-150 | 92.27448 | 193395   | < 330.         |             | UG/KG      | 11/16/92   |         | Indeno[1,2,3-cd]pyrene     |
| PF-36B-W-150       92.27448       534521       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-368-W-150 | 92.27448 | 78591    | < 330.         |             | UG/KG      | 11/16/92   |         | Isophorone                 |
| PF-36B-W-150       92.27448       91576       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-36B-W-150 | 92.27448 | 534521   | < 330.         |             | UG/KG      | 11/16/92   |         | 2-Methyl-4,6-dinitrophenol |
| PF-36B-W-150       92.27448       95487       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PF-36B-W-150 | 92.27448 | 91576    | < 330.         |             | UG/KG      | 11/16/92   |         | 2-Methylnaphthalene        |
| PF-36B-W-150       92.27448       106445       < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 95487    | < 330.         |             | UG/KG      | 11/16/92   |         | 2-Methylphenol             |
| PF-36B-W-150         92.27448         91203         < 330.         UG/KG         11/16/92         Naphthalene           PF-36B-W-150         92.27448         88744         < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | PF-36B-W-150 | 92.27448 | 106445   | < 330.         |             | UG/KG      | 11/16/92   |         | 4-Methylphenol             |
| PF-36B-W-150         92.27448         88744         < 330.         UG/KG         11/16/92         2-Nitroaniline           PF-36B-W-150         92.27448         99092         < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PF-36B-W-150 | 92.27448 | 91203    | ) < 330.       |             | UG/KG      | 11/16/92   |         | Naphthalene                |
| PF-36B-W-150 92.27448 99092 < 330. UG/KG 11/16/92 3-Nitroaniline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PF-36B-W-150 | 92.27448 | 88744    | < 330 <b>.</b> |             | UG/KG      | 11/16/92   |         | 2-Nitroaniline             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PF-36B-W-150 | 92.27448 | 99092    | < 330.         |             | UG/KG      | 11/16/92   |         | 3-Nitroaniline             |
| PF-36B-W-150 92.27448 100016 < 330. UG/KG 11/16/92 4-Nitroaniline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PF-36B-W-150 | 92.27448 | 100016   | < 330.         |             | UG/KG      | 11/16/92   |         | 4-Nitroanitine             |
| PF-36B-W-150 92.27448 98953 < 330. UG/KG 11/16/92 Nitrobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PF-368-W-150 | 92.27448 | 98953    | < 330.         |             | UG/KG      | 11/16/92   |         | Nitrobenzene               |
| PF-36B-W-150 92.27448 88755 < 330. UG/KG 11/16/92 2-Nitrophenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PF-368-W-150 | 92.27448 | 88755    | < 330.         |             | UG/KG      | 11/16/92   |         | 2-Nitrophenol              |
| PF-36B-W-150 92.27448 100027 < 330. UG/KG 11/16/92 4-Nitrophenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | PF-36B-W-150 | 92.27448 | 100027   | < 330.         |             | UG/KG      | 11/16/92   |         | 4-Nitrophenol              |
| PF-36B-W-150 92.27448 621647 < 330. UG/KG 11/16/92 N-Nitrosodi-n-propylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PF-36B-W-150 | 92.27448 | 621647   | < 330.         |             | ,<br>UG/KG | 11/16/92   |         | N-Nitrosodi-n-propylamine  |
| PF-368-W-150 92.27448 62759 < 330. UG/KG 11/16/92 N-Nitrosodimethylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PF-36B-W-150 | 92.27448 | 62759    | < 330.         |             | UG/KG      | 11/16/92   |         | N-Nitrosodimethylamine     |
| PF-36B-W-150 92.27448 86306 < 330. UG/KG 11/16/92 N-Nitrosodiphenvlamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PF-36B-W-150 | 92.27448 | 86306    | < 330.         |             | UG/KG      | 11/16/92   |         | N-Nitrosodiphenylamine     |

|                    |                  |          | ***                  | ******                    | *** EM- | -9 ANALYTICAL RI   | EPORT *** | *****                  |  |
|--------------------|------------------|----------|----------------------|---------------------------|---------|--------------------|-----------|------------------------|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS   | COMPLETION<br>DATE | COMMENT   | COMPOUND<br>NAME       |  |
| PF-36B-W-150       | 92.27448         | 87865    | < 330.               |                           | UG/KG   | 11/16/92           |           | Pentachlorophenol      |  |
| PF-36B-W-150       | 92.27448         | 85018    | < 330.               |                           | UG/KG   | 11/16/92           |           | Phenanthrene           |  |
| PF-36B-W-150       | 92.27448         | 108952   | < 330.               |                           | UG/KG   | 11/16/92           |           | Pheno l                |  |
| PF-36B-W-150       | 92.27448         | 129000   | < 330.               |                           | UG/KG   | 11/16/92           |           | Pyrene                 |  |
| PF-36B-W-150       | 92.27448         | 120821   | < 330.               |                           | UG/KG   | 11/16/92           |           | 1,2,4-Trichlorobenzene |  |
| PF-368-W-150       | 92.27448         | 95954    | < 330.               |                           | UG/KG   | 11/16/92           |           | 2,4,5-Trichlorophenol  |  |
| PF-36B-W-150       | 92.27448         | 88062    | < 330.               |                           | UG/KG   | 11/16/92           |           | 2,4,6-Trichlorophenol  |  |

Tentatively Identified Compounds in Customer Sample # 92.27448

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none



|                     |            |               | ***                | *****           | ** EM   | 9 ANALYTICAL REPO | ORT ****     | ******                                          |
|---------------------|------------|---------------|--------------------|-----------------|---------|-------------------|--------------|-------------------------------------------------|
|                     |            |               | EP/                | A SEMIVOLATILES | Pre     | pared by: LAK     | c            | on 16-Nov-1992                                  |
| REQUEST NUMB        | ER: 13503  | MATRIX        | : SS ANALY         | ST: ANTHONY LO  | MBARDO  | PI                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                  |
| OWNER: Phil         | ip R. Fres | quez          | GROUP: EM-8        | MAIL-STOP:      | K490 P  | HONE: 7-0815      | TECHNIQUE    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |
| <u>Customer Sam</u> | ple Result | s, Sample #   | <u>92.27449</u> Da | ate Collected:  | 9/01/92 | Date Received:    | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |
| CUSTOMER            | SAMPI F    |               | ANAL YTTCAL        | ANAL YTTCAL     |         | COMPLETION        |              | COMPOLIND                                       |
| NUMBER              | NUMBER     | ANALYSIS      | RESULT             | UNCERTAINTY     | UNITS   | DATE              | COMMENT      | NAME                                            |
|                     |            |               |                    |                 |         |                   |              |                                                 |
| PF-36B-E-20         | 92.27449   | 83329         | < 330.             |                 | UG/KG   | 11/16/92          |              | Acenaphthene                                    |
| PF-36B-E-20         | 92.27449   | 208968        | < 330.             |                 | UG/KG   | 11/16/92          |              | Acenaphthylene                                  |
| PF-36B-E-20         | 92.27449   | 62533         | < 330.             |                 | UG/KG   | 11/16/92          |              | Aniline                                         |
| PF-36B-E-20         | 92.27449   | 120127        | < 330.             |                 | UG/KG   | 11/16/92          |              | Anthracene                                      |
| PF-368-E-20         | 92.27449   | 103333        | < 330.             |                 | UG/KG   | 11/16/92          |              | Azobenzene                                      |
| PF-36B-E-20         | 92.27449   | 92875         | < 330.             |                 | UG/KG   | 11/16/92          |              | m-Benzidine                                     |
| PF-36B-E-20         | 92.27449   | 56553         | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzo[a]anthracene                              |
| PF-36B-E-20         | 92.27449   | 5032 <b>8</b> | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzo[a]pyrene                                  |
| PF-36B-E-20         | 92.27449   | 205992        | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzo[b]fluoranthene                            |
| PF-36B-E-20         | 92.27449   | 191242        | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzo[g,h,i]perylene                            |
| PF-36B-E-20         | 92.27449   | 207089        | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzo[k]fluoranthene                            |
| PF-36B-E-20         | 92.27449   | 65850         | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzoic acid                                    |
| PF-36B-E-20         | 92.27449   | 100516        | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzyl alcohol                                  |
| PF-36B-E-20         | 92.27449   | 111911        | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-chloroethoxy)methane                      |
| PF-36B-E-20         | 92.27449   | 111444        | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-chloroethyl)ether                         |
| PF-36B-E-20         | 92.27449   | 108601        | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-chloroisopropyl)ether                     |
| PF-36B-E-20         | 92.27449   | 117817        | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-ethylhexyl)phthalate                      |
| PF-36B-E-20         | 92.27449   | 101553        | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Bromophenylphenyl ether                       |
| PF-36B-E-20         | 92.27449   | 85687         | < 330.             |                 | UG/KG   | 11/16/92          |              | Butyl benzyl phthalate                          |
| PF-368-E-20         | 92.27449   | 59507         | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Chloro-3-methylphenol                         |
| PF-36B-E-20         | 92.27449   | 106478        | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Chloroaniline                                 |
| PF-36B-E-20         | 92.27449   | 91587         | < 330.             |                 | UG/KG   | 11/16/92          |              | 2-Chloronaphthalene                             |
| PF-36B-E-20         | 92.27449   | 95578         | < 330.             |                 | UG/KG   | 11/16/92          |              | o-Ch loropheno l                                |
| PF-36B-E-20         | 92.27449   | 7005723       | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Chlorophenylphenyl ether                      |
| PF-36B-E-20         | 92.27449   | 218019        | < 330.             |                 | UG/KG   | 11/16/92          |              | Chrysene                                        |
| PF-36B-E-20         | 92.27449   | 84742         | < 330.             |                 | UG/KG   | 11/16/92          |              | Di-n-butyl phthalate                            |

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|             |           |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT *** | *****                            |  |
|-------------|-----------|----------|------------|-------------|---------|----------------|-----------|----------------------------------|--|
| CUSTOMER    | SAMPLE    |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |           | COMPOUND                         |  |
| NUMBER      | NUMBER    | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT   | NAME.                            |  |
| PF-36B-E-20 | 92.27449  | 117840   | < 330.     |             | UG/KG   | 11/16/92       |           | Di-n-octyl phthalate             |  |
| PF-368-E-20 | 92.27449  | 53703    | < 330.     |             | UG/KG   | 11/16/92       |           | Dibenzo[a,h]anthracene           |  |
| PF-36B-E-20 | 92.27449  | 132649   | < 330.     |             | UG/KG   | 11/16/92       |           | Dibenzofuran                     |  |
| PF-36B-E-20 | 92.27449  | 95501    | < 330.     |             | UG/KG   | 11/16/92       |           | o-Dichlorobenzene (1,2)          |  |
| PF-36B-E-20 | 92.27449  | 541731   | < 330.     |             | UG/KG   | 11/16/92       |           | m-Dichlorobenzene (1,3)          |  |
| PF-36B-E-20 | 92.27449  | 106467   | < 330.     |             | UG/KG   | 11/16/92       |           | p-Dichlorobenzene (1,4)          |  |
| PF-368-E-20 | 92.27449  | 91941    | < 330.     |             | UG/KG   | 11/16/92       |           | 3,3'-Dichlorobenzidine           |  |
| PF-36B-E-20 | 92.27449  | 120832   | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4-Dichlorophenol               |  |
| PF-36B-E-20 | 92.27449  | 84662    | < 330.     |             | UG/KG   | 11/16/92       |           | Diethyl phthalate                |  |
| PF-36B-E-20 | 92.27449  | 131113   | < 330.     |             | UG/KG   | 11/16/92       |           | Dimethyl phthalate               |  |
| PF-36B-E-20 | 92.27449  | 105679   | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4-Dimethylphenol               |  |
| PF-36B-E-20 | 92.27449  | 51285    | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4-Dinitrophenol                |  |
| PF-368-E-20 | 92.27449  | 121142   | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4-Dinitrotoluene               |  |
| PF-36B-E-20 | 92.27449  | 606202   | < 330.     |             | UG/KG   | 11/16/92       |           | 2,6-Dinitrotoluene               |  |
| PF-36B-E-20 | 92.27449  | 206440   | < 330.     |             | UG/KG   | 11/16/92       |           | Fluoranthene                     |  |
| PF-36B-E-20 | 92.27449  | 86737    | < 330.     |             | UG/KG   | 11/16/92       |           | Fluorene                         |  |
| PF-36B-E-20 | 92.27449  | 118741   | < 330.     |             | UG/KG   | 11/16/92       |           | Hexach lorobenzene               |  |
| PF-368-E-20 | 92.27449  | 87683    | < 330.     |             | UG/KG   | 11/16/92       |           | Hexachlorobutadiene              |  |
| PF-368-E-20 | 92.27449  | 77474    | < 330.     |             | UG/KG   | 11/16/92       |           | <b>Hexachlorocyclopentadiene</b> |  |
| PF-36B-E-20 | 92.27449  | 67721    | < 330.     |             | UG/KG   | 11/16/92       |           | Hexachloroethane                 |  |
| PF-36B-E-20 | 92.27449  | 193395   | < 330.     |             | UG/KG   | 11/16/92       |           | Indeno[1,2,3-cd]pyrene           |  |
| PF-36B-E-20 | 92.27449  | 78591    | < 330.     |             | UG/KG   | 11/16/92       |           | Isophorone                       |  |
| PF-36B-E-20 | 92.27449  | 534521   | < 330.     |             | UG/KG   | 11/16/92       |           | 2-Methyl-4,6-dinitrophenol       |  |
| PF-36B-E-20 | 92.27449  | 91576    | < 330.     |             | UG/KG   | 11/16/92       |           | 2-Methylnaphthalene              |  |
| PF-36B-E-20 | 92.27449  | 95487    | < 330.     |             | UG/KG   | 11/16/92       |           | 2-Methylphenol                   |  |
| PF-36B-E-20 | 92.27449  | 106445   | < 330.     |             | UG/KG   | 11/16/92       |           | 4-Methylphenol                   |  |
| PF-36B-E-20 | 92.27449  | 91203    | < 330.     |             | UG/KG   | 11/16/92       |           | Naphthalene                      |  |
| PF-36B-E-20 | 92.27449  | 88744    | < 330.     |             | UG/KG   | 11/16/92       |           | 2-Nitroaniline                   |  |
| PF-36B-E-20 | 92.27449  | 99092    | < 330.     |             | UG/KG   | 11/16/92       |           | 3-Nitroaniline                   |  |
| PF-36B-E-20 | 92.27449  | 100016   | < 330.     |             | UG/KG   | 11/16/92       |           | 4-Nitroaniline                   |  |
| PF-36B-E-20 | 92.27449  | 98953    | < 330.     |             | UG/KG   | 11/16/92       |           | Nitrobenzene                     |  |
| PF-368-E-20 | 92.27449  | 88755    | < 330.     |             | UG/KG   | 11/16/92       |           | 2-Nitrophenol                    |  |
| PF-36B-E-20 | 92.27449  | 100027   | < 330.     |             | UG/KG   | 11/16/92       |           | 4-Nitrophenol                    |  |
| PF-36B-E-20 | 92.27449  | 621647   | < 330.     |             | UG/KG   | 11/16/92       |           | N-Nitrosodi-n-propylamine        |  |
| PF-368-5-20 | 92.27449  | 62759    | < 330.     |             | UG/KG   | 11/16/92       |           | N-Nitrosodimethylamine           |  |
| 11 300 6 20 | 22121 112 |          |            |             | ,       | -, - ,         |           |                                  |  |

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|             |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL RI | EPORT *** | ****                   |
|-------------|----------|----------|------------|-------------|---------|-----------------|-----------|------------------------|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION      |           | COMPOUND               |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE            | COMMENT   | NAME                   |
| PF-368-E-20 | 92.27449 | 87865    | < 330.     |             | UG/KG   | 11/16/92        |           | Pentachlorophenol      |
| PF-368-E-20 | 92.27449 | 85018    | < 330.     |             | UG/KG   | 11/16/92        |           | Phenanthrene           |
| PF-36B-E-20 | 92.27449 | 108952   | < 330.     |             | UG/KG   | 11/16/92        |           | Phenol                 |
| PF-368-E-20 | 92.27449 | 129000   | < 330.     |             | UG/KG   | 11/16/92        |           | Pyrene                 |
| PF-368-E-20 | 92.27449 | 120821   | < 330.     |             | UG/KG   | 11/16/92        |           | 1,2,4-Trichlorobenzene |
| PF-368-E-20 | 92.27449 | 95954    | < 330.     |             | UG/KG   | 11/16/92        |           | 2,4,5-Trichlorophenol  |
| PF-36B-E-20 | 92.27449 | 88062    | < 330.     |             | UG/KG   | 11/16/92        |           | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.27449

none

| REQUEST | NUMBER:   | 13503    | MATRIX: SS | ANALYST: | ANTHONY I  | LOMBARDO |        |        | PROGRAM CODE: | M106 | NOTEBOOK: | R7336         | PAGE: | 145        |
|---------|-----------|----------|------------|----------|------------|----------|--------|--------|---------------|------|-----------|---------------|-------|------------|
| OWNER:  | Philip R. | Fresquez | GROUP:     | EM-8     | MAIL-STOP: | : K490   | PHONE: | 7-0815 | TECHNIQUE:    | GCEC | ANALYTIC  | AL PROCEDURE: | EPA S | SW-846 3RD |

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EPA SEMIVOLATILES

Customer Sample Results, Sample # 92.27450

Date Collected: 9/01/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 10/02/92

| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |
|-------------|----------|----------|------------|-------------|-------|------------|---------|----------------------------|
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |
| PF-36B-E-40 | 92.27450 | 83329    | < 1700.    |             | UG/KG | 11/16/92   |         | Acenaphthene               |
| PF-36B-E-40 | 92.27450 | 208968   | < 1700.    |             | UG/KG | 11/16/92   |         | Acenaphthylene             |
| PF-368-E-40 | 92.27450 | 62533    | < 1700.    |             | UG/KG | 11/16/92   |         | Aniline                    |
| PF-36B-E-40 | 92.27450 | 120127   | < 1700.    |             | UG/KG | 11/16/92   |         | Anthracene                 |
| PF-368-E-40 | 92.27450 | 103333   | < 1700.    |             | UG/KG | 11/16/92   |         | Azobenzene                 |
| PF-368-E-40 | 92.27450 | 92875    | < 1700.    |             | UG/KG | 11/16/92   |         | m-Benzidine                |
| PF-368-E-40 | 92.27450 | 56553    | < 1700.    |             | UG/KG | 11/16/92   |         | Benzo[a]anthracene         |
| PF-368-E-40 | 92.27450 | 50328    | < 1700.    |             | UG/KG | 11/16/92   |         | Benzo[a]pyrene             |
| PF-36B-E-40 | 92.27450 | 205992   | < 1700.    |             | UG/KG | 11/16/92   |         | Benzo[b]fluoranthene       |
| PF-368-E-40 | 92.27450 | 191242   | < 1700.    |             | UG/KG | 11/16/92   |         | Benzo[g,h,i]perylene       |
| PF-368-E-40 | 92.27450 | 207089   | < 1700.    |             | UG/KG | 11/16/92   |         | Benzo[k]fluoranthene       |
| PF-36B-E-40 | 92.27450 | 65850    | < 1700.    |             | UG/KG | 11/16/92   |         | Benzoic acid               |
| PF-36B-E-40 | 92.27450 | 100516   | < 1700.    |             | UG/KG | 11/16/92   |         | Benzyl alcohol             |
| PF-368-E-40 | 92.27450 | 111911   | < 1700.    |             | UG/KG | 11/16/92   |         | Bis(2-chloroethoxy)methane |
| PF-36B-E-40 | 92.27450 | 111444   | < 1700.    |             | UG/KG | 11/16/92   |         | Bis(2-chloroethyl)ether    |
| PF-36B-E-40 | 92.27450 | 108601   | < 1700.    |             | UG/KG | 11/16/92   |         | Bis(2-chloroisopropyl)ethe |
| PF-36B-E-40 | 92.27450 | 117817   | < 1700.    |             | UG/KG | 11/16/92   |         | Bis(2-ethylhexyl)phthalate |
| PF-368-E-40 | 92.27450 | 101553   | < 1700.    |             | UG/KG | 11/16/92   |         | 4-Bromophenylphenyl ether  |
| PF-36B-E-40 | 92.27450 | 85687    | < 1700.    |             | UG/KG | 11/16/92   |         | Butyl benzyl phthalate     |
| PF-36B-E-40 | 92.27450 | 59507    | < 1700.    |             | UG/KG | 11/16/92   |         | 4-Chioro-3-methylphenol    |
| PF-368-E-40 | 92.27450 | 106478   | < 1700.    |             | UG/KG | 11/16/92   |         | 4-Chloroaniline            |
| PF-36B-E-40 | 92.27450 | 91587    | < 1700.    |             | UG/KG | 11/16/92   |         | 2-Chloronaphthalene        |
| PF-36B-E-40 | 92.27450 | 95578    | < 1700.    |             | UG/KG | 11/16/92   |         | o-Chlorophenot             |
| PF-368-E-40 | 92.27450 | 7005723  | < 1700.    |             | UG/KG | 11/16/92   |         | 4-Chlorophenylphenyl ether |
| PF-368-E-40 | 92.27450 | 218019   | < 1700.    |             | UG/KG | 11/16/92   |         | Chrysene                   |
| PF-36B-1    | 92.27450 | 84742    | < 1700.    |             | UG/KG | 16/92      |         | Di-n-butyl phthalate       |
|             |          |          |            |             |       |            |         |                            |

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|             |          |            | ***     | **********  | *** EM | -9 ANALYTICAL R | EPORT * | ***********                |
|-------------|----------|------------|---------|-------------|--------|-----------------|---------|----------------------------|
| CUSTOMER    | SAMPLE   |            |         |             |        |                 |         |                            |
| NUMBER      | NUMBER   | ANAL YSTS  | DESHIT  | UNCEDTAINTY |        | COMPLETION      | - ···   | COMPOUND                   |
|             |          | /11/12/313 | RESULT  | UNCERTAINTY | UNITZ  | DATE            | COMMENT | NAME                       |
| PF-368-E-40 | 92.27450 | 117840     | < 1700. |             |        | 11/16/02        |         |                            |
| PF-36B-E-40 | 92.27450 | 53703      | < 1700. |             | UG/KG  | 11/16/92        |         | Di-n-octyl phthalate       |
| PF-368-E-40 | 92.27450 | 132649     | < 1700. |             | IIG/KG | 11/10/92        |         | Ulbenzola,hjanthracene     |
| PF-36B-E-40 | 92.27450 | 95501      | < 1700. |             | UG/KG  | 11/16/92        |         | Dibenzofuran               |
| PF-368-E-40 | 92.27450 | 541731     | < 1700. |             | UG/KG  | 11/16/92        |         | o-Dichlorobenzene (1,2)    |
| PF-36B-E-40 | 92.27450 | 106467     | < 1700. |             | UG/KG  | 11/10/92        |         | m-Dichlorobenzene (1,3)    |
| PF-36B-E-40 | 92.27450 | 91941      | < 1700. |             |        | 11/10/92        |         | p-Dichlorobenzene (1,4)    |
| PF-36B-E-40 | 92.27450 | 120832     | < 1700. |             |        | 11/16/92        |         | 3,3'-Dichlorobenzidine     |
| PF-36B-E-40 | 92.27450 | 84662      | < 1700. |             |        | 11/16/92        |         | 2,4-Dichlorophenol         |
| PF-36B-E-40 | 92.27450 | 131113     | < 1700. |             |        | 11/16/92        |         | Diethyl phthalate          |
| PF-36B-E-40 | 92.27450 | 105679     | < 1700  |             |        | 11/16/92        |         | Dimethyl phthalate         |
| PF-36B-E-40 | 92.27450 | 51285      | < 1700. |             |        | 11/16/92        |         | 2,4-Dimethylphenol         |
| PF-36B-E-40 | 92.27450 | 121142     | < 1700. |             |        | 11/16/92        |         | 2,4-Dinitrophenol          |
| PF-36B-E-40 | 92.27450 | 606202     | < 1700  |             |        | 11/16/92        |         | 2,4-Dinitrotoluene         |
| PF-36B-E-40 | 92.27450 | 206440     | < 1700  |             |        | 11/16/92        |         | 2,6-Dinitrotoluene         |
| PF-36B-E-40 | 92.27450 | 86737      | < 1700  |             |        | 11/10/92        |         | Fluoranthene               |
| PF-368-E-40 | 92.27450 | 118741     | < 1700. |             |        | 11/16/92        |         | Fluorene                   |
| PF-36B-E-40 | 92.27450 | 87683      | < 1700. |             |        | 11/16/92        |         | Hexachlorobenzene          |
| PF-368-E-40 | 92.27450 | 77474      | < 1700. |             |        | 11/16/92        |         | Hexachlorobutadiene        |
| PF-368-E-40 | 92.27450 | 67721      | < 1700. |             |        | 11/16/92        |         | Hexachlorocyclopentadiene  |
| PE-368-E-40 | 92.27450 | 193395     | < 1700. |             |        | 11/16/92        |         | Hexachloroethane           |
| PE-368-E-40 | 92.27450 | 78591      | < 1700. |             | UG/KG  | 11/16/92        |         | Indeno[1,2,3-cd]pyrene     |
| PE-368-E-40 | 92.27450 | 534521     | < 1700. |             | UG/KG  | 11/16/92        |         | Isophorone                 |
| PF-368-F-40 | 92 27450 | 91576      | < 1700. |             | UG/KG  | 11/16/92        |         | 2-Methyl-4,6-dinitrophenol |
| PE-368-E-40 | 92 27450 | 95487      | < 1700. |             | UG/KG  | 11/16/92        |         | 2-Methylnaphthalene        |
| PE-368-E-40 | 02 27450 | 106445     | < 1700. |             | UG/KG  | 11/16/92        |         | 2-Methylphenol             |
| PE-368-E-40 | 02 27450 | 01202      | < 1700. |             | UG/KG  | 11/16/92        |         | 4-Methylphenol             |
| PE-369-5-40 | 92.27450 | 91203      | < 1700. |             | UG/KG  | 11/16/92        |         | Naphthalene                |
| PE-36P-E-40 | 02 27450 | 00/44      | < 1700. |             | UG/KG  | 11/16/92        |         | 2-Nitroaniline             |
| PE-26P-E-40 | 92.27450 | 39092      | < 1700. |             | UG/KG  | 11/16/92        |         | 3-Nitroaniline             |
| PF-300-E-40 | 92.2/450 | 100016     | < 1700. |             | UG/KG  | 11/16/92        |         | 4-Nitroaniline             |
| PF-36B-E-40 | 92.2/450 | 98953      | < 1/00. |             | UG/KG  | 11/16/92        |         | Nitrobenzene               |
| PF-368-E-40 | 92.2/450 | 88/55      | < 1700. |             | UG/KG  | 11/16/92        |         | 2-Nitrophenol              |
| PF-308-E-40 | 92.2/450 | 100027     | < 1700. |             | UG/KG  | 11/16/92        |         | 4-Nitrophenol              |
| PT-308-E-40 | 92.2/450 | 621647     | < 1700. |             | UG/KG  | 11/16/92        |         | N-Nitrosodi-n-propylamine  |
| PF-368-E-40 | 92.2/450 | 62759      | < 1700. |             | UG/KG  | 11/16/92        |         | N-Nitrosodimethylamine     |
| PF-368-E-40 | 92.27450 | 86306      | < 1700. |             | UG/KG  | 11/16/92        |         | N~Nitrosodiphenylamine     |

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|                    |                  |          | ***                  | ******                    | *** EM-    | 9 ANALYTICAL RE    | EPORT * | *****                  |  |
|--------------------|------------------|----------|----------------------|---------------------------|------------|--------------------|---------|------------------------|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS      | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |  |
| ac aca c 40        | 00 07450         | 97965    | < 1700.              |                           | UG/KG      | 11/16/92           |         | Pentachlorophenol      |  |
| PF-368-E-40        | 92.2/450         | 95019    | < 1700.              |                           | ,<br>UG/KG | 11/16/92           |         | Phenanthrene           |  |
| PF-368-E-40        | 92.2/450         | 109052   | < 1700.              |                           | ,<br>UG/KG | 11/16/92           |         | Pheno l                |  |
| PF-368-E-40        | 92.2/450         | 120000   | < 1700.              |                           | UG/KG      | 11/16/92           |         | Pyrene                 |  |
| PF-36B-E-40        | 92.2/450         | 129000   | < 1700.              |                           | UG/KG      | 11/16/92           |         | 1,2,4-Trichlorobenzene |  |
| PF-36B-E-40        | 92.2/450         | 120821   | < 1700.              |                           | UG/KG      | 11/16/92           |         | 2,4,5-Trichlorophenol  |  |
| PF-36B-E-40        | 92.27450         | 95954    | < 1700.              |                           | UG/KG      | 11/16/92           |         | 2,4,6-Trichlorophenol  |  |
| PF-36B-E-40        | 92.2/450         | 00002    | < 1/00.              |                           |            | , ,                |         |                        |  |

Tentatively Identified Compounds in Customer Sample # 92.27450

none

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1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19

|                     |            |              | ***          | ****           | *** EM- | 9 ANALYTICAL REP | ORT ****     | *******                                        |
|---------------------|------------|--------------|--------------|----------------|---------|------------------|--------------|------------------------------------------------|
|                     |            |              | EP           | A SEMIVOLATILE | S Pre   | pared by: LAK    | 0            | on 16-Nov-1992                                 |
| REQUEST NUMB        | ER: 13503  | 3 MATRI      | IX: SS ANALY | ST: ANTHONY L  | MBARDO  | Р                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                 |
| OWNER: Phil         | ip R. Fres | squez        | GROUP: EM-8  | MAIL-STOP:     | K490 F  | PHONE: 7-0815    | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |
| <u>Customer Sam</u> | ple Result | ts, Sample # | 92.27451 D   | ate Collected: | 9/01/92 | Date Received:   | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 9/28/92 |
| CUSTOMER            | SAMPLE     |              | ANALYTICAL   | ANALYTICAL     |         | COMPLETION       |              | COMPOLIND                                      |
| NUMBER              | NUMBER     | ANALYSIS     | RESULT       | UNCERTAINTY    | UNITS   | DATE             | COMMENT      | NAME                                           |
| PF-36B-E-60         | 92.27451   | 83329        | < 330.       |                |         | 11/16/02         |              | Associated                                     |
| PF-36B-E-60         | 92.27451   | 208968       | < 330.       |                | HG/KG   | 11/16/92         |              | Acenaphtheleus                                 |
| PF-36B-E-60         | 92.27451   | 62533        | < 330.       |                | UG/KG   | 11/16/92         |              | Acenaphinylene                                 |
| PF-36B-E-60         | 92.27451   | 120127       | < 330.       |                | UG/KG   | 11/16/92         |              | Anthraceno                                     |
| PF-36B-E-60         | 92.27451   | 103333       | < 330.       |                | UG/KG   | 11/16/92         |              |                                                |
| PF-36B-E-60         | 92.27451   | 92875        | < 330.       |                | UG/KG   | 11/16/92         |              | m-Benziding                                    |
| PF-368-E-60         | 92.27451   | 56553        | < 330.       |                | UG/KG   | 11/16/92         |              | Benzo[a] anthracene                            |
| PF-36B-E-60         | 92.27451   | 50328        | < 330.       |                | UG/KG   | 11/16/92         |              | Benzo[a] nyrene                                |
| PF-36B-E-60         | 92.27451   | 205992       | < 330.       |                | UG/KG   | 11/16/92         |              | Benzo[b]fluoranthene                           |
| PF-36B-E-60         | 92.27451   | 191242       | < 330.       |                | UG/KG   | 11/16/92         |              | Benzo[g,h,i]perviene                           |
| PF-36B-E-60         | 92.27451   | 207089       | < 330.       |                | UG/KG   | 11/16/92         |              | Benzo[k]fluoranthene                           |
| PF-36B-E-60         | 92.27451   | 65850        | < 330.       |                | UG/KG   | 11/16/92         |              | Benzoic acid                                   |
| PF-368-E-60         | 92.27451   | 100516       | < 330.       |                | UG/KG   | 11/16/92         |              | Benzyl alcohol                                 |
| PF-36B-E-60         | 92.27451   | 111911       | < 330.       |                | UG/KG   | 11/16/92         |              | Bis(2-chloroethoxy)methane                     |
| PF-368-E-60         | 92.27451   | 111444       | < 330.       |                | UG/KG   | 11/16/92         |              | Bis(2-chloroethyl)ether                        |
| PF-36B-E-60         | 92.27451   | 108601       | < 330.       |                | UG/KG   | 11/16/92         |              | Bis(2-chloroisopropyl)ether                    |
| PF-368-E-60         | 92.27451   | 117817       | < 330.       |                | UG/KG   | 11/16/92         |              | Bis(2-ethylhexyl)phthalate                     |
| PF-36B-E-60         | 92.27451   | 101553       | < 330.       |                | UG/KG   | 11/16/92         |              | 4-Bromophenylphenyl ether                      |
| PF-36B-E-60         | 92.27451   | 85687        | < 330.       |                | UG/KG   | 11/16/92         |              | Butyl benzyl phthalate                         |
| PF-36B-E-60         | 92.27451   | 59507        | < 330.       |                | UG/KG   | 11/16/92         |              | 4-Chloro-3-methylphenol                        |
| PF-36B-E-60         | 92.27451   | 106478       | < 330.       |                | UG/KG   | 11/16/92         |              | 4-Chloroaniline                                |
| PF-36B-E-60         | 92.27451   | 91587        | < 330.       |                | UG/KG   | 11/16/92         |              | 2-Chloronaphthalene                            |
| PF-36B-E-60         | 92.27451   | 95578        | < 330.       |                | UG/KG   | 11/16/92         |              | o-Chlorophenol                                 |
| PF-368-E-60         | 92.27451   | 7005723      | < 330.       |                | UG/KG   | 11/16/92         |              | 4-Chlorophenylphenyl ether                     |
| PF-368-E-60         | 92.27451   | 218019       | < 330.       |                | UG/KG   | 11/16/92         |              | Chrysene                                       |
| PF-36B-E-60         | 92.27451   | 84742        | < 330.       |                | UG/KG   | 11/16/92         |              | Di-n-butyl obthalate                           |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* EM-9 ANALYTICAL REPORT

| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION    |         | COMPOUND                   |  |
|-------------|----------|----------|------------|-------------|-------|---------------|---------|----------------------------|--|
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE          | COMMENT | NAME                       |  |
|             |          |          |            |             |       |               |         |                            |  |
| PF-36B-E-60 | 92.27451 | 117840   | < 330.     |             | UG/KG | 11/16/92      |         | Di-n-octyl phthalate       |  |
| PF-368-E-60 | 92.27451 | 53703    | < 330.     |             | UG/KG | 11/16/92      |         | Dibenzo[a,h]anthracene     |  |
| PF-36B-E-60 | 92.27451 | 132649   | < 330.     |             | UG/KG | 11/16/92      |         | Dibenzofuran               |  |
| PF-36B-E-60 | 92.27451 | 95501    | < 330.     |             | UG/KG | 11/16/92      |         | o-Dichlorobenzene (1,2)    |  |
| PF-368-E-60 | 92.27451 | 541731   | < 330.     |             | UG/KG | 11/16/92      |         | m-Dichlorobenzene (1,3)    |  |
| PF-36B-E-60 | 92.27451 | 106467   | < 330.     |             | UG/KG | 11/16/92      |         | p-Dichlorobenzene (1,4)    |  |
| PF-368-E-60 | 92.27451 | 91941    | < 330.     |             | UG/KG | 11/16/92      |         | 3,3'-Dichlorobenzidine     |  |
| PF-36B-E-60 | 92.27451 | 120832   | < 330.     |             | UG/KG | 11/16/92      |         | 2,4-Dichlorophenol         |  |
| PF-36B-E-60 | 92.27451 | 84662    | < 330.     |             | UG/KG | 11/16/92      |         | Diethyl phthalate          |  |
| PF-36B-E-60 | 92.27451 | 131113   | < 330.     |             | UG/KG | 11/16/92      |         | Dimethyl phthalate         |  |
| PF-36B-E-60 | 92.27451 | 105679   | < 330.     |             | UG/KG | 11/16/92      |         | 2,4-Dimethylphenol         |  |
| PF-36B-E-60 | 92.27451 | 51285    | < 330.     |             | UG/KG | 11/16/92      |         | 2,4-Dinitrophenol          |  |
| PF-36B-E-60 | 92.27451 | 121142   | < 330.     |             | UG/KG | 11/16/92      |         | 2,4-Dinitrotoluene         |  |
| PF-36B-E-60 | 92.27451 | 606202   | < 330.     |             | UG/KG | 11/16/92      |         | 2,6-Dinitrotoluene         |  |
| PF-36B-E-60 | 92.27451 | 206440   | < 330.     |             | UG/KG | 11/16/92      |         | Fluoranthene               |  |
| PF-368-E-60 | 92.27451 | 86737    | < 330.     |             | UG/KG | 11/16/92      |         | Fluorene                   |  |
| PF-36B-E-60 | 92.27451 | 118741   | < 330.     |             | UG/KG | 11/16/92      |         | Hexachlorobenzene          |  |
| PF-368-E-60 | 92.27451 | 87683    | < 330.     |             | UG/KG | 11/16/92      |         | Hexachlorobutadiene        |  |
| PF-36B-E-60 | 92.27451 | 77474    | < 330.     |             | UG/KG | 11/16/92      |         | Hexachlorocyclopentadiene  |  |
| PF-36B-E-60 | 92.27451 | 67721    | < 330.     |             | UG/KG | 11/16/92      |         | Hexachloroethane           |  |
| PF-36B-E-60 | 92.27451 | 193395   | < 330.     |             | UG/KG | 11/16/92      |         | Indeno[1,2,3-cd]pyrene     |  |
| PF-36B-E-60 | 92.27451 | 78591    | < 330.     |             | UG/KG | 11/16/92      |         | Isophorone                 |  |
| PF-36B-E-60 | 92.27451 | 534521   | < 330.     |             | UG/KG | 11/16/92      |         | 2-Methyl-4,6-dinitrophenol |  |
| PF-368-E-60 | 92.27451 | 91576    | < 330.     |             | UG/KG | 11/16/92      |         | 2-Methylnaphthalene        |  |
| PF-36B-E-60 | 92.27451 | 95487    | < 330.     |             | UG/KG | 11/16/92      |         | 2-Methylphenol             |  |
| PF-36B-E-60 | 92.27451 | 106445   | < 330.     |             | UG/KG | 11/16/92      |         | 4-Methylphenol             |  |
| PF-36B-E-60 | 92.27451 | 91203    | < 330.     |             | UG/KG | 11/16/92      |         | Naphthalene                |  |
| PF-368-E-60 | 92.27451 | 88744    | < 330.     |             | UG/KG | 11/16/92      |         | 2-Nitroaniline             |  |
| PF-368-E-60 | 92.27451 | 99092    | < 330.     |             | UG/KG | 11/16/92      |         | 3-Nitroaniline             |  |
| PF-36B-E-60 | 92.27451 | 100016   | < 330.     |             | UG/KG | 11/16/92      |         | 4-Nitroaniline             |  |
| PE-368-E-60 | 92.27451 | 98953    | < 330.     |             | UG/KG | 11/16/92      |         | Nitrobenzene               |  |
| PE-368-E-60 | 92.27451 | 88755    | < 330.     |             | UG/KG | 11/16/92      |         | 2-Nitrophenol              |  |
| PE-368-E-60 | 92,27451 | 100027   | < 330.     |             | UG/KG | 11/16/92      |         | 4-Nitrophenol              |  |
| PE-368-E-60 | 92.27451 | 621647   | < 330.     |             | UG/KG | 11/16/92      |         | N-Nitrosodi-n-propylamine  |  |
| PE-368-E-60 | 92.27451 | 62759    | < 330.     |             | UG/KG | 11/16/92      |         | N-Nitrosodimethylamine     |  |
| PF-368-7    | 92.27451 | 86306    | < 330.     |             | UG/KG | <b>/16/92</b> |         | N-Nitrosodiphenylamine     |  |

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|             |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT *** | *****                  |
|-------------|----------|----------|------------|-------------|---------|----------------|-----------|------------------------|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |           | COMPOUND               |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT   | NAME                   |
| PF-36B-E-60 | 92.27451 | 87865    | < 330.     |             | UG/KG   | 11/16/92       |           | Pentachlorophenol      |
| PF-36B-E-60 | 92.27451 | 85018    | < 330.     |             | UG/KG   | 11/16/92       |           | Phenanthrene           |
| PF-36B-E-60 | 92.27451 | 108952   | < 330.     |             | UG/KG   | 11/16/92       |           | Phenol                 |
| PF-36B-E-60 | 92.27451 | 129000   | < 330.     |             | UG/KG   | 11/16/92       |           | Pyrene                 |
| PF-36B-E-60 | 92.27451 | 120821   | < 330.     |             | UG/KG   | 11/16/92       |           | 1,2,4-Trichlorobenzene |
| PF-36B-E-60 | 92.27451 | 95954    | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4,5-Trichlorophenol  |
| PF-36B-E-60 | 92.27451 | 88062    | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.27451

none

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|                      |           |               | **          | *************    | EM-     | 9 ANALYTICAL REP |               |                                              |      |
|----------------------|-----------|---------------|-------------|------------------|---------|------------------|---------------|----------------------------------------------|------|
|                      |           |               | E           | PA SEMIVOLATILES | Pre     | pared by: LAK    | 0             | n 16-Nov-1992                                |      |
| REQUEST NUMBE        | R: 13503  | MATRIX:       | SS ANAL     | YST: ANTHONY LO  | MBARDO  | P                | PROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145               |      |
| OWNER: Phili         | p R. Fres | quez G        | ROUP: EM-8  | MAIL-STOP:       | K490 P  | HONE: 7-0815     | TECHNIQUE     | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD  | J    |
| <u>Customer Samp</u> | le Result | s, Sample # 9 | 2.27452     | Date Collected:  | 9/01/92 | Date Received:   | 9/02/92       | Date Extracted: 9/14/92 Date Analyzed: 10/05 | i/92 |
| CUSTOMER             | SAMPI F   |               | ANAL YTTCAL | ANALYTICAL       |         | COMPLETION       |               | COMPOUND                                     |      |
| NUMBER               | NUMBER    | ANALYSIS      | RESULT      | UNCERTAINTY      | UNITS   | DATE             | COMMENT       | NAME                                         |      |
| 05-268-5-100         | 02 27452  | 83320         | < 1600      |                  | UG/KG   | 11/16/92         |               | Acenaphthene                                 |      |
| PF-368-E-100         | 92.2/452  | 208968        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Acenaphthylene                               |      |
| PF-368-F-100         | 92 27452  | 62533         | < 1600.     |                  | UG/KG   | 11/16/92         |               | Aniline                                      |      |
| PE-368-E-100         | 92.27452  | 120127        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Anthracene                                   |      |
| PF-368-F-100         | 92.27452  | 103333        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Azobenzene                                   |      |
| PF-36B-E-100         | 92.27452  | 92875         | < 1600.     |                  | UG/KG   | 11/16/92         |               | m-Benzidine                                  |      |
| PF-36B-E-100         | 92.27452  | 56553         | < 1600.     |                  | UG/KG   | 11/16/92         |               | Benzo[a]anthracene                           |      |
| PF-368-E-100         | 92.27452  | 50328         | < 1600.     |                  | UG/KG   | 11/16/92         |               | Benzo[a]pyrene                               |      |
| PF-36B-E-100         | 92.27452  | 205992        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Benzo[b]fluoranthene                         |      |
| PF-368-E-100         | 92.27452  | 191242        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Benzo[g,h,i]perylene                         |      |
| PF-368-E-100         | 92.27452  | 207089        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Benzo[k]fluoranthene                         |      |
| PF-36B-E-100         | 92.27452  | 65850         | < 1600.     |                  | UG/KG   | 11/16/92         |               | Benzoic acid                                 |      |
| PF-36B-E-100         | 92.27452  | 100516        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Benzyl alcohol                               |      |
| PF-36B-E-100         | 92.27452  | 111911        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Bis(2-chloroethoxy)methane                   |      |
| PF-36B-E-100         | 92.27452  | 111444        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Bis(2-chloroethyl)ether                      |      |
| PF-36B-E-100         | 92.27452  | 108601        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Bis(2-chloroisopropyl)ether                  |      |
| PF-36B-E-100         | 92.27452  | 117817        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Bis(2-ethylhexyl)phthalate                   |      |
| PF-36B-E-100         | 92.27452  | 101553        | < 1600.     |                  | UG/KG   | 11/16/92         |               | 4-Bromophenylphenyl ether                    |      |
| PF-36B-E-100         | 92.27452  | 85687         | < 1600.     |                  | UG/KG   | 11/16/92         |               | Butyl benzyl phthalate                       |      |
| PF-36B-E-100         | 92.27452  | 59507         | < 1600.     |                  | UG/KG   | 11/16/92         |               | 4-Chloro-3-methylphenol                      |      |
| PF-36B-E-100         | 92.27452  | 106478        | < 1600.     |                  | UG/KG   | 11/16/92         |               | 4-Chloroaniline                              |      |
| PF-36B-E-100         | 92.27452  | 91587         | < 1600.     |                  | UG/KG   | 11/16/92         |               | 2-Chloronaphthalene                          |      |
| PF-36B-E-100         | 92.27452  | 95578         | < 1600.     |                  | UG/KG   | 11/16/92         |               | o-Chlorophenol                               |      |
| PF-36B-E-100         | 92.27452  | 7005723       | < 1600.     |                  | UG/KG   | 11/16/92         |               | 4-Chlorophenylphenyl ether                   |      |
| PF-36B-E-100         | 92.27452  | 218019        | < 1600.     |                  | UG/KG   | 11/16/92         |               | Chrysene                                     |      |
| 0F-36B- 0            | 92.27452  | 84742         | < 1600.     |                  | UG/KG   | 16/92            |               | Di-n-butyl phthalate                         |      |

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PF-36B-E-100 92.27452

< 1600.

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|                           |                  |          | ***        | *****       | *** EM-    | 9 ANALYTICAL R | EPORT *** | *****                      |  |
|---------------------------|------------------|----------|------------|-------------|------------|----------------|-----------|----------------------------|--|
| CUSTOMER                  | SAMPLE           |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION     |           | COMPOUND                   |  |
| NUMBER                    | NUMBER           | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE           | COMMENT   | NAME                       |  |
| PF-36B-E-100              | 92.27452         | 117840   | < 1600.    |             | UG/KG      | 11/16/92       |           |                            |  |
| PF-36 <del>B-E-10</del> 0 | <b>92.2</b> 7452 | 53703    | < 1600.    |             | UG/KG      | 11/16/92       |           | Di noccyc phinatate        |  |
| PF-368-E-100              | 92.27452         | 132649   | < 1600.    |             | UG/KG      | 11/16/92       |           | Dibenzofuran               |  |
| PF-36B-E-100              | 92.27452         | 95501    | < 1600.    |             | UG/KG      | 11/16/92       |           | orDichlanshanzana (1.2)    |  |
| PF-36B-E-100              | 92.27452         | 541731   | < 1600.    |             | UG/KG      | 11/16/92       |           | m=Dichlorobenzene (1,2)    |  |
| PF-36B-E-100              | 92.27452         | 106467   | < 1600.    |             | UG/KG      | 11/16/92       |           | n-Dichlorobenzene (1,3)    |  |
| PF-36B-E-100              | 92.27452         | 91941    | < 1600.    |             | UG/KG      | 11/16/92       |           | 3 3'-Dichlorobenzidine     |  |
| PF-36B-E-100              | 92.27452         | 120832   | < 1600.    |             | UG/KG      | 11/16/92       |           | 2 4-Dichlorophenol         |  |
| PF-36B-E-100              | 92.27452         | 84662    | < 1600.    |             | UG/KG      | 11/16/92       |           | Diethyl nhthalate          |  |
| PF-368-E-100              | 92.27452         | 131113   | < 1600.    |             | UG/KG      | 11/16/92       |           | Dimethyl phthalate         |  |
| PF-36B-E-100              | 92.27452         | 105679   | < 1600.    |             | UG/KG      | 11/16/92       |           | 2 4-Dimethylphenol         |  |
| PF-36B-E-100              | 92.27452         | 51285    | < 1600.    |             | UG/KG      | 11/16/92       |           | 2 4-Dinitrophenol          |  |
| PF-36B-E-100              | 92.27452         | 121142   | < 1600.    |             | ,<br>UG/KG | 11/16/92       |           | 2 4-Dimitrotoluene         |  |
| PF-36B-E-100              | 92.27452         | 606202   | < 1600.    |             | UG/KG      | 11/16/92       |           | 2 6-Dinitrotoluene         |  |
| PF-36B-E-100              | 92.27452         | 206440   | < 1600.    |             | UG/KG      | 11/16/92       |           | Fluoranthene               |  |
| PF-36B-E-100              | 92.27452         | 86737    | < 1600.    |             | UG/KG      | 11/16/92       |           | Fluorene                   |  |
| PF-368-E-100              | 92.27452         | 118741   | < 1600.    |             | UG/KG      | 11/16/92       |           | Hexachlorobenzene          |  |
| PF-36B-E-100              | 92.27452         | 87683    | < 1600.    |             | UG/KG      | 11/16/92       |           | Hexachlorobutadiene        |  |
| PF-368-E-100              | 92.27452         | 77474    | < 1600.    |             | UG/KG      | 11/16/92       |           | Hexachlorocyclopentadiene  |  |
| PF-368-E-100              | 92.27452         | 67721    | < 1600.    |             | UG/KG      | 11/16/92       |           | Hexachloroethane           |  |
| PF-368-E-100              | 92.27452         | 193395   | < 1600.    |             | UG/KG      | 11/16/92       |           | Indeno[1.2.3-cd]pyrene     |  |
| PF-36B-E-100              | 92.27452         | 78591    | < 1600.    |             | UG/KG      | 11/16/92       |           | Isophorone                 |  |
| PF-36B-E-100              | 92.27452         | 534521   | < 1600.    |             | UG/KG      | 11/16/92       |           | 2-Methyl-4.6-dinitrophenol |  |
| PF-368-E-100              | 92.27452         | 91576    | < 1600.    |             | UG/KG      | 11/16/92       |           | 2-Methylnaphthalene        |  |
| PF-36B-E-100              | 92.27452         | 95487    | < 1600.    |             | UG/KG      | 11/16/92       |           | 2-Methylphenol             |  |
| PF-36B-E-100              | 92.27452         | 106445   | < 1600.    |             | UG/KG      | 11/16/92       |           | 4-Methylphenol             |  |
| PF-36B-E-100              | 92.27452         | 91203    | < 1600.    |             | UG/KG      | 11/16/92       |           | Naphthalene                |  |
| PF-36B-E-100              | 92.27452         | 88744    | < 1600.    |             | UG/KG      | 11/16/92       |           | 2-Nitroaniline             |  |
| PF-368-E-100              | 92.27452         | 99092    | < 1600.    |             | UG/KG      | 11/16/92       |           | 3-Nitroaniline             |  |
| PF-36B-E-100              | 92.27452         | 100016   | < 1600.    |             | UG/KG      | 11/16/92       |           | 4-Nitroaniline             |  |
| PF-368-E-100              | 92.27452         | 98953    | < 1600.    |             | UG/KG      | 11/16/92       |           | Nitrobenzene               |  |
| PF-36B-E-100              | 92.27452         | 88755    | < 1600.    |             | UG/KG      | 11/16/92       |           | 2-Nitrophenol              |  |
| PF-36B-E-100              | 92.27452         | 100027   | < 1600.    |             | UG/KG      | 11/16/92       |           | 4-Nitrophenol              |  |
| PF-368-E-100              | 92.27452         | 621647   | < 1600.    |             | UG/KG      | 11/16/92       |           | N-Nitrosodi-n-propylamine  |  |
| PF-36B-E-100              | 92.27452         | 62759    | < 1600.    |             | UG/KG      | 11/16/92       |           | N-Nitrosodimethylamine     |  |

11/16/92

N-Nitrosodiphenylamine

UG/KG

-

× 5

|              |          |          | ********************** EM-9 ANALYTICAL REPORT ************************************ |             |       |            |         |                        |  |  |  |  |  |
|--------------|----------|----------|------------------------------------------------------------------------------------|-------------|-------|------------|---------|------------------------|--|--|--|--|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL                                                                         | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |  |  |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT                                                                             | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |  |  |  |
| PF-36B-E-100 | 92.27452 | 87865    | < 1600.                                                                            |             | UG/KG | 11/16/92   |         | Pentach loropheno l    |  |  |  |  |  |
| PF-368-E-100 | 92.27452 | 85018    | < 1600.                                                                            |             | UG/KG | 11/16/92   |         | Phenanthrene           |  |  |  |  |  |
| PF-36B-E-100 | 92.27452 | 108952   | < 1600.                                                                            |             | UG/KG | 11/16/92   |         | Pheno l                |  |  |  |  |  |
| PF-368-E-100 | 92.27452 | 129000   | < 1600.                                                                            |             | UG/KG | 11/16/92   |         | Pyrene                 |  |  |  |  |  |
| PF-36B-E-100 | 92.27452 | 120821   | < 1600.                                                                            |             | UG/KG | 11/16/92   |         | 1,2,4-Trichlorobenzene |  |  |  |  |  |
| PF-36B-E-100 | 92.27452 | 95954    | < 1600.                                                                            |             | UG/KG | 11/16/92   |         | 2,4,5-Trichlorophenol  |  |  |  |  |  |
| PF-36B-E-100 | 92.27452 | 88062    | < 1600.                                                                            |             | UG/KG | 11/16/92   |         | 2,4,6-Trichlorophenol  |  |  |  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.27452

none

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|                                                                                                         |              |              | ***         | *****           | ** EM-  | 9 ANALYTICAL REP | ORT ****  | ******                                         |  |  |  |
|---------------------------------------------------------------------------------------------------------|--------------|--------------|-------------|-----------------|---------|------------------|-----------|------------------------------------------------|--|--|--|
|                                                                                                         |              |              | EP/         | A SEMIVOLATILES | ; Pre   | pared by: LAK    | o         | on 16-Nov-1992                                 |  |  |  |
| REQUEST NUMBER: 13503 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 145 |              |              |             |                 |         |                  |           |                                                |  |  |  |
| OWNER: Phi                                                                                              | lip R. Fres  | squez        | GROUP: EM-8 | MAIL-STOP:      | K490 P  | HONE: 7-0815     | TECHNIQUE | GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD      |  |  |  |
| <u>Customer Sa</u>                                                                                      | umple Result | ts, Sample # | 92.27453 Da | ate Collected:  | 9/01/92 | Date Received:   | 9/02/92   | Date Extracted: 9/14/92 Date Analyzed: 9/29/92 |  |  |  |
| CUSTOMER                                                                                                | SAMPI F      |              | ΔΝΔΙ ΥΤΤΟΔΙ | ANAL YTTCAL     |         |                  |           | COMPOLIND                                      |  |  |  |
| NIMBER                                                                                                  | NIMBER       | ANAL YSTS    | RESULT      |                 | UNITS   | DATE             | COMMENT   | NAME                                           |  |  |  |
| NORDER                                                                                                  | HONDER       | /11/12/010   | REJUET      | onelannin       | 0.110   | DATE             |           |                                                |  |  |  |
| PF-36B-E-15                                                                                             | 60 92.27453  | 83329        | < 660.      |                 | UG/KG   | 11/16/92         |           | Acenaphthene                                   |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 208968       | < 660.      |                 | UG/KG   | 11/16/92         |           | Acenaphthylene                                 |  |  |  |
| PF-36B-E-15                                                                                             | 60 92.27453  | 62533        | < 660.      |                 | UG/KG   | 11/16/92         |           | Aniline                                        |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 120127       | < 660.      |                 | UG/KG   | 11/16/92         |           | Anthracene                                     |  |  |  |
| PF-36B-E-15                                                                                             | 60 92.27453  | 103333       | < 660.      |                 | UG/KG   | 11/16/92         |           | Azobenzene                                     |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 92875        | < 660.      |                 | UG/KG   | 11/16/92         |           | m-Benzidine                                    |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 56553        | < 660.      |                 | UG/KG   | 11/16/92         |           | Benzo[a]anthracene                             |  |  |  |
| PF-36B-E-15                                                                                             | 60 92.27453  | 50328        | < 660.      |                 | UG/KG   | 11/16/92         |           | Benzo[a]pyrene                                 |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 205992       | < 660.      |                 | UG/KG   | 11/16/92         |           | Benzo[b]fluoranthene                           |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 191242       | < 660.      |                 | UG/KG   | 11/16/92         |           | Benzo[g,h,i]perylene                           |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 207089       | < 660.      |                 | UG/KG   | 11/16/92         |           | Benzo[k]fluoranthene                           |  |  |  |
| PF-368-E-15                                                                                             | 50 92.27453  | 65850        | < 660.      |                 | UG/KG   | 11/16/92         |           | Benzoic acid                                   |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 100516       | < 660.      |                 | UG/KG   | 11/16/92         |           | Benzyl alcohol                                 |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 111911       | < 660.      |                 | UG/KG   | 11/16/92         |           | Bis(2-chloroethoxy)methane                     |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 111444       | < 660.      |                 | UG/KG   | 11/16/92         |           | Bis(2-chloroethyl)ether                        |  |  |  |
| PF-368-E-15                                                                                             | 50 92.27453  | 108601       | < 660.      |                 | UG/KG   | 11/16/92         |           | Bis(2-chloroisopropyl)ether                    |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 117817       | < 660.      |                 | UG/KG   | 11/16/92         |           | Bis(2-ethylhexyl)phthalate                     |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 101553       | < 660.      |                 | UG/KG   | 11/16/92         |           | 4-Bromophenylphenyl ether                      |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 85687        | < 660.      |                 | UG/KG   | 11/16/92         |           | Butyl benzyl phthalate                         |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 59507        | < 660.      |                 | UG/KG   | 11/16/92         |           | 4-Chloro-3-methylphenol                        |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 106478       | < 660.      |                 | UG/KG   | 11/16/92         |           | 4-Chloroaniline                                |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 91587        | < 660.      |                 | UG/KG   | 11/16/92         |           | 2-Chloronaphthalene                            |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 95578        | < 660.      |                 | UG/KG   | 11/16/92         |           | o-Chlorophenol                                 |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 7005723      | < 660.      |                 | UG/KG   | 11/16/92         |           | 4-Chlorophenylphenyl ether                     |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 218019       | < 660.      |                 | UG/KG   | 11/16/92         |           | Chrysene                                       |  |  |  |
| PF-36B-E-15                                                                                             | 50 92.27453  | 84742        | < 660.      |                 | UG/KG   | 11/16/92         |           | Di-n-butyl phthalate                           |  |  |  |

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|              |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT * | ******                     |  |
|--------------|----------|----------|------------|-------------|---------|----------------|---------|----------------------------|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |         | COMPOUND                   |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT | NAME                       |  |
| PF-36B-E-150 | 92.27453 | 117840   | < 660.     |             | UG/KG   | 11/16/92       |         | Di-n-octyl phthalate       |  |
| PF-36B-E-150 | 92.27453 | 53703    | < 660.     |             | UG/KG   | 11/16/92       |         | Dibenzo[a,h]anthracene     |  |
| PF-36B-E-150 | 92.27453 | 132649   | < 660.     |             | UG/KG   | 11/16/92       |         | Dibenzofuran               |  |
| PF-368-E-150 | 92.27453 | 95501    | < 660.     |             | UG/KG   | 11/16/92       |         | o-Dichlorobenzene (1,2)    |  |
| PF-36B-E-150 | 92.27453 | 541731   | < 660.     |             | UG/KG   | 11/16/92       |         | m-Dichlorobenzene (1,3)    |  |
| PF-36B-E-150 | 92.27453 | 106467   | < 660.     |             | UG/KG   | 11/16/92       |         | p-Dichlorobenzene (1,4)    |  |
| PF-36B-E-150 | 92.27453 | 91941    | < 660.     |             | UG/KG   | 11/16/92       |         | 3,3'-Dichlorobenzidine     |  |
| PF-36B-E-150 | 92.27453 | 120832   | < 660.     |             | UG/KG   | 11/16/92       |         | 2,4-Dichlorophenol         |  |
| PF-36B-E-150 | 92.27453 | 84662    | < 660.     |             | UG/KG   | 11/16/92       |         | Diethyl phthalate          |  |
| PF-36B-E-150 | 92.27453 | 131113   | < 660.     |             | UG/KG   | 11/16/92       |         | Dimethyl phthalate         |  |
| PF-36B-E-150 | 92.27453 | 105679   | < 660.     |             | UG/KG   | 11/16/92       |         | 2,4-Dimethylphenol         |  |
| PF-368-E-150 | 92.27453 | 51285    | < 660.     |             | UG/KG   | 11/16/92       |         | 2,4-Dinitrophenol          |  |
| PF-36B-E-150 | 92.27453 | 121142   | < 660.     |             | UG/KG   | 11/16/92       |         | 2,4-Dinitrotoluene         |  |
| PF-36B-E-150 | 92.27453 | 606202   | < 660.     |             | UG/KG   | 11/16/92       |         | 2,6-Dinitrotoluene         |  |
| PF-36B-E-150 | 92.27453 | 206440   | < 660.     |             | UG/KG   | 11/16/92       |         | Fluoranthene               |  |
| PF-36B-E-150 | 92.27453 | 86737    | < 660.     |             | UG/KG   | 11/16/92       |         | Fluorene                   |  |
| PF-36B-E-150 | 92.27453 | 118741   | < 660.     |             | UG/KG   | 11/16/92       |         | Hexach lorobenzene         |  |
| PF-36B-E-150 | 92.27453 | 87683    | < 660.     |             | UG/KG   | 11/16/92       |         | Hexachlorobutadiene        |  |
| PF-36B-E-150 | 92.27453 | 77474    | < 660.     |             | UG/KG   | 11/16/92       |         | Hexachlorocyclopentadiene  |  |
| PF-36B-E-150 | 92.27453 | 67721    | < 660.     |             | UG/KG   | 11/16/92       |         | Hexachloroethane           |  |
| PF-368-E-150 | 92.27453 | 193395   | < 660.     |             | UG/KG   | 11/16/92       |         | Indeno[1,2,3-cd]pyrene     |  |
| PF-36B-E-150 | 92.27453 | 78591    | < 660.     |             | UG/KG   | 11/16/92       |         | Isophorone                 |  |
| PF-36B-E-150 | 92.27453 | 534521   | < 660.     |             | UG/KG   | 11/16/92       |         | 2-Methyl-4,6-dinitrophenol |  |
| PF-36B-E-150 | 92.27453 | 91576    | < 660.     |             | UG/KG   | 11/16/92       |         | 2-Methylnaphthalene        |  |
| PF-36B-E-150 | 92.27453 | 95487    | < 660.     |             | UG/KG   | 11/16/92       |         | 2-Methylphenol             |  |
| PF-36B-E-150 | 92.27453 | 106445   | < 660.     |             | UG/KG   | 11/16/92       |         | 4-Methylphenol             |  |
| PF-36B-E-150 | 92.27453 | 91203    | < 660.     |             | UG/KG   | 11/16/92       |         | Naphthalene                |  |
| PF-36B-E-150 | 92.27453 | 88744    | < 660.     |             | UG/KG   | 11/16/92       |         | 2-Nitroaniline             |  |
| PF-36B-E-150 | 92.27453 | 99092    | < 660.     |             | UG/KG   | 11/16/92       |         | 3-Nitroaniline             |  |
| PF-36B-E-150 | 92.27453 | 100016   | < 660.     |             | UG/KG   | 11/16/92       |         | 4-Nitroaniline             |  |
| PF-36B-E-150 | 92.27453 | 98953    | < 660.     |             | UG/KG   | 11/16/92       |         | Nitrobenzene               |  |
| PF-36B-E-150 | 92.27453 | 88755    | < 660.     |             | UG/KG   | 11/16/92       |         | 2-Nitrophenol              |  |
| PF-36B-E-150 | 92.27453 | 100027   | < 660.     |             | UG/KG   | 11/16/92       |         | 4-Nitrophenol              |  |
| PF-36B-E-150 | 92.27453 | 621647   | < 660.     |             | UG/KG   | 11/16/92       |         | N-Nitrosodi-n-propylamine  |  |
| PF-368-E-150 | 92.27453 | 62759    | < 660.     |             | UG/KG   | 11/16/92       |         | N-Nitrosodimethylamine     |  |
| PF-368- 30   | 92.27453 | 86306    | < 660.     |             | UG/KG   | <b>16/92</b>   |         | N-Nitrosodiphenylamine     |  |
| -            |          |          |            |             | •       |                |         |                            |  |

|                    |                  |          | ***                  | *****                     | *** EM | EM-9 ANALYTICAL REPORT ************************************ |         |                   |  |  |
|--------------------|------------------|----------|----------------------|---------------------------|--------|-------------------------------------------------------------|---------|-------------------|--|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS  | COMPLETION<br>DATE                                          | COMMENT | COMPOUND<br>NAME  |  |  |
| PF-36B-E-150       | 92.27453         | 87865    | < 660.               |                           | UG/KG  | 11/16/92                                                    |         | Pentachlorophenol |  |  |
| DE 360 E 150       | 00.07452         | 05010    |                      |                           |        | 11/10/02                                                    |         | Dhanandhuana      |  |  |

|                       |        |        |       |          | •                      |
|-----------------------|--------|--------|-------|----------|------------------------|
| PF-36B-E-150 92.27453 | 85018  | < 660. | UG/KG | 11/16/92 | Phenanthrene           |
| PF-36B-E-150 92.27453 | 108952 | < 660. | UG/KG | 11/16/92 | Phenol                 |
| PF-36B-E-150 92.27453 | 129000 | < 660. | UG/KG | 11/16/92 | Pyrene                 |
| PF-36B-E-150 92.27453 | 120821 | < 660. | UG/KG | 11/16/92 | 1,2,4-Trichlorobenzene |
| PF-36B-E-150 92.27453 | 95954  | < 660. | UG/KG | 11/16/92 | 2,4,5-Trichlorophenol  |
| PF-36B-E-150 92.27453 | 88062  | < 660. | UG/KG | 11/16/92 | 2,4,6-Trichlorophenol  |
|                       |        |        |       |          |                        |

Tentatively Identified Compounds in Customer Sample # 92.27453

none

2<sup>41</sup> %

PF-36B-N-20 92.27454

PF-36B-N-20 92.27454

PF-368-N-20 92.27454

PF-36B-N-20 92.27454

92.27454

PF-368-

111911

111444

108601

117817

101553

85687

59507

106478

91587

95578

7005723

218019

84742

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

< 330.

|                     |             |             | **:         | *****            | ** EM-  | 9 ANALYTICAL REP | ORT *****    | *******                                         |
|---------------------|-------------|-------------|-------------|------------------|---------|------------------|--------------|-------------------------------------------------|
|                     |             |             | E           | PA SEMIVOLATILES | i Pre   | pared by: LAK    | on           | 16-Nov-1992                                     |
| REQUEST NUMB        | BER: 13503  | MATRI       | (: SS ANAL) | (ST: ANTHONY LO  | MBARDO  | P                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                  |
| OWNER: Phil         | lip R. Fres | quez        | GROUP: EM-8 | MAIL-STOP:       | K490 F  | PHONE: 7-0815    | TECHNIQUE:   | GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD       |
| <u>Customer Sam</u> | nple Result | s, Sample # | 92.27454    | Date Collected:  | 9/01/92 | Date Received:   | 9/02/92 1    | Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |
| CUSTOMER            | SAMPLE      |             | ANALYTICAL  | ANALYTICAL       |         | COMPLETION       |              | COMPOUND                                        |
| NUMBER              | NUMBER      | ANALYSIS    | RESULT      | UNCERTAINTY      | UNITS   | DATE             | COMMENT      | NAME                                            |
| PF-368-N-20         | 92.27454    | 83329       | < 330.      |                  | UG/KG   | 11/16/92         |              | Acenaphthene                                    |
| PF-36B-N-20         | 92.27454    | 208968      | < 330.      |                  | UG/KG   | 11/16/92         |              | Acenaphthylene                                  |
| PF-36B-N-20         | 92.27454    | 62533       | < 330.      |                  | UG/KG   | 11/16/92         |              | Aniline                                         |
| PF-368-N-20         | 92.27454    | 120127      | < 330.      |                  | UG/KG   | 11/16/92         |              | Anthracene                                      |
| PF-368-N-20         | 92.27454    | 103333      | < 330.      |                  | UG/KG   | 11/16/92         |              | Azobenzene                                      |
| PF-36B-N-20         | 92.27454    | 92875       | < 330.      |                  | UG/KG   | 11/16/92         |              | m-Benzidine                                     |
| PF-36B-N-20         | 92.27454    | 56553       | < 330.      |                  | UG/KG   | 11/16/92         |              | Benzo[a]anthracene                              |
| PF-36B-N-20         | 92.27454    | 50328       | < 330.      |                  | UG/KG   | 11/16/92         |              | Benzo[a]pyrene                                  |
| PF-36B-N-20         | 92.27454    | 205992      | < 330.      |                  | UG/KG   | 11/16/92         |              | Benzo[b]fluoranthene                            |
| PF-368-N-20         | 92.27454    | 191242      | < 330.      |                  | UG/KG   | 11/16/92         |              | Benzo[g,h,i]perylene                            |
| PF-36B-N-20         | 92.27454    | 207089      | < 330.      |                  | UG/KG   | 11/16/92         |              | Benzo[k]fluoranthene                            |
| PF-368-N-20         | 92.27454    | 65850       | < 330.      |                  | UG/KG   | 11/16/92         |              | Benzoic acid                                    |
| PF-36B-N-20         | 92.27454    | 100516      | < 330.      |                  | UG/KG   | 11/16/92         |              | Benzyl alcohol                                  |

Bis(2-chloroethoxy)methane

Bis(2-chloroisopropyl)ether

Bis(2-ethylhexyl)phthalate

4-Bromophenylphenyl ether

Butyl benzyl phthalate

4-Chloro-3-methylphenol

4-Chlorophenylphenyl ether

4-Chloroaniline

o-Chlorophenol

Chrysene

2-Chloronaphthalene

Di-n-butyl phthalate

Bis(2-chloroethyl)ether

| Page | : | 32 |
|------|---|----|
| 3 -  | - |    |

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

11/16/92

16/92

UG/KG

62759

86306

< 330.

< 330.

PF-36B-N-20 92.27454

PF-36B-N-20 92.27454

for the

| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |
|-------------|----------|----------|------------|-------------|-------|------------|---------|----------------------------|
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |
| PF-368-N-20 | 92.27454 | 117840   | < 330.     |             | UG/KG | 11/16/92   |         | Di-n-octyl phthałate       |
| PF-368-N-20 | 92.27454 | 53703    | < 330.     |             | UG/KG | 11/16/92   |         | Dibenzo[a,h]anthracene     |
| PF-36B-N-20 | 92.27454 | 132649   | < 330.     |             | UG/KG | 11/16/92   |         | Dibenzofuran               |
| PF-36B-N-20 | 92.27454 | 95501    | < 330.     |             | UG/KG | 11/16/92   |         | o-Dichlorobenzene (1,2)    |
| PF-36B-N-20 | 92.27454 | 541731   | < 330.     |             | UG/KG | 11/16/92   |         | m-Dichlorobenzene (1,3)    |
| PF-36B-N-20 | 92.27454 | 106467   | < 330.     |             | UG/KG | 11/16/92   |         | p-Dichlorobenzene (1,4)    |
| PF-36B-N-20 | 92.27454 | 91941    | < 330.     |             | UG/KG | 11/16/92   |         | 3,3'-Dichlorobenzidine     |
| PF-36B-N-20 | 92.27454 | 120832   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dichlorophenol         |
| PF-36B-N-20 | 92.27454 | 84662    | < 330.     |             | UG/KG | 11/16/92   |         | Diethyl phthalate          |
| PF-368-N-20 | 92.27454 | 131113   | < 330.     |             | UG/KG | 11/16/92   |         | Dimethyl phthalate         |
| PF-36B-N-20 | 92.27454 | 105679   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dimethylphenol         |
| PF-368-N-20 | 92.27454 | 51285    | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dinitrophenol          |
| PF-368-N-20 | 92.27454 | 121142   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dinitrotoluene         |
| PF-368-N-20 | 92.27454 | 606202   | < 330.     |             | UG/KG | 11/16/92   |         | 2,6-Dinitrotoluene         |
| PF-36B-N-20 | 92.27454 | 206440   | < 330.     |             | UG/KG | 11/16/92   |         | Fluoranthene               |
| PF-368-N-20 | 92.27454 | 86737    | < 330.     |             | UG/KG | 11/16/92   |         | Fluorene                   |
| PF-36B-N-20 | 92.27454 | 118741   | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorobenzene          |
| PF-36B-N-20 | 92.27454 | 87683    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorobutadiene        |
| PF-368-N-20 | 92.27454 | 77474    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorocyclopentadiene  |
| PF-368-N-20 | 92.27454 | 67721    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachloroethane           |
| PF-36B-N-20 | 92.27454 | 193395   | < 330.     |             | UG/KG | 11/16/92   |         | Indeno[1,2,3-cd]pyrene     |
| PF-36B-N-20 | 92.27454 | 78591    | < 330.     |             | UG/KG | 11/16/92   |         | Isophorone                 |
| PF-368-N-20 | 92.27454 | 534521   | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methyl-4,6-dinitrophenol |
| PF-36B-N-20 | 92.27454 | 91576    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methylnaphthalene        |
| PF-36B-N-20 | 92.27454 | 95487    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methylphenol             |
| PF-368-N-20 | 92.27454 | 106445   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Methylphenol             |
| PF-36B-N-20 | 92.27454 | 91203    | < 330.     |             | UG/KG | 11/16/92   |         | Naphthalene                |
| PF-36B-N-20 | 92.27454 | 88744    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Nitroaniline             |
| PF-36B-N-20 | 92.27454 | 99092    | < 330.     |             | UG/KG | 11/16/92   |         | 3-Nitroaniline             |
| PF-36B-N-20 | 92.27454 | 100016   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Nitroaniline             |
| PF-36B-N-20 | 92.27454 | 98953    | < 330.     |             | UG/KG | 11/16/92   |         | Nitrobenzene               |
| PF-36B-N-20 | 92.27454 | 88755    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Nitrophenol              |
| PF-36B-N-20 | 92.27454 | 100027   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Nitrophenol              |
| PF-368-N-20 | 92.27454 | 621647   | < 330.     |             | UG/KG | 11/16/92   |         | N-Nitrosodi-n-propylamine  |

11/16/92

11/16/92

UG/KG

UG/KG

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EM-9 ANALYTICAL REPORT

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N-Nitrosodimethylamine

N-Nitrosodiphenylamine

1

|                    |          |           | ***                  | *****      | *** EM | -9 ANALYTICAL R | EPORT * | ******                 |  |  |
|--------------------|----------|-----------|----------------------|------------|--------|-----------------|---------|------------------------|--|--|
| CUSTOMER<br>NUMBER | SAMPLE   | ANAI YSTS | ANALYTICAL<br>RESULT | ANALYTICAL | INTTS  |                 | COMMENT | COMPOUND               |  |  |
|                    |          |           | NEDOL I              | Chielen    | 01110  | DATE            | CONTENT | INNIL                  |  |  |
| PF-36B-N-20        | 92.27454 | 87865     | < 330.               |            | UG/KG  | 11/16/92        |         | Pentachlorophenol      |  |  |
| PF-36B-N-20        | 92.27454 | 85018     | < 330.               |            | UG/KG  | 11/16/92        |         | Phenanthrene           |  |  |
| PF-36B-N-20        | 92.27454 | 108952    | < 330.               |            | UG/KG  | 11/16/92        |         | Phenol                 |  |  |
| PF-36B-N-20        | 92.27454 | 129000    | < 330.               |            | UG/KG  | 11/16/92        |         | Pyrene                 |  |  |
| PF-36B-N-20        | 92.27454 | 120821    | < 330.               |            | UG/KG  | 11/16/92        |         | 1,2,4-Trichlorobenzene |  |  |
| PF-368-N-20        | 92.27454 | 95954     | < 330.               |            | UG/KG  | 11/16/92        |         | 2,4,5-Trichlorophenol  |  |  |
| PF-36B-N-20        | 92.27454 | 88062     | < 330.               |            | UG/KG  | 11/16/92        |         | 2,4,6-Trichlorophenol  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.27454

none

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|                                                                                                                                           |            |          | ***         | *****           | ** E <b>M</b> - | 9 ANALYTICAL REPO | DRT ****  | *****                                       |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------------|-----------------|-----------------|-------------------|-----------|---------------------------------------------|--|--|--|--|
|                                                                                                                                           |            |          | EP/         | A SEMIVOLATILES | Pre             | pared by: LAK     | 0         | n 16-Nov-1992                               |  |  |  |  |
| REQUEST NUMBER: 13503 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 145                                   |            |          |             |                 |                 |                   |           |                                             |  |  |  |  |
| OWNER: Phil                                                                                                                               | ip R. Fres | quez     | GROUP: EM-8 | MAIL-STOP:      | K490 P          | HONE: 7-0815      | TECHNIQUE | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD |  |  |  |  |
| Customer Sample Results, Sample # 92.27455 Date Collected: 9/01/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |            |          |             |                 |                 |                   |           |                                             |  |  |  |  |
| CUSTOMED                                                                                                                                  | CAMDI E    |          | ANALYTICAL  | ANALYTICAL      |                 | COMPLETION        |           | COMPOUND                                    |  |  |  |  |
| NUMBER                                                                                                                                    | NUMBER     | ANALYSIS | RESULT      | UNCERTAINTY     | UNITS           | DATE              | COMMENT   | NAME                                        |  |  |  |  |
|                                                                                                                                           |            |          |             |                 |                 |                   |           |                                             |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 83329    | < 330.      |                 | UG/KG           | 11/16/92          |           | Acenaphthene                                |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 208968   | < 330.      |                 | UG/KG           | 11/16/92          |           | Acenaphthylene                              |  |  |  |  |
| PF-36B- <del>N</del> -40                                                                                                                  | 92.27455   | 62533    | < 330.      |                 | UG/KG           | 11/16/92          |           | Aniline                                     |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 120127   | < 330.      |                 | UG/KG           | 11/16/92          |           | Anthracene                                  |  |  |  |  |
| PF-368-N-40                                                                                                                               | 92.27455   | 103333   | < 330.      |                 | UG/KG           | 11/16/92          |           | Azobenzene                                  |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 92875    | < 330.      |                 | UG/KG           | 11/16/92          |           | m-Benzidine                                 |  |  |  |  |
| PF-368-N-40                                                                                                                               | 92.27455   | 56553    | < 330.      |                 | UG/KG           | 11/16/92          |           | Benzo[a]anthracene                          |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 50328    | < 330.      |                 | UG/KG           | 11/16/92          |           | Benzo[a]pyrene                              |  |  |  |  |
| PF-368-N-40                                                                                                                               | 92.27455   | 205992   | < 330.      |                 | UG/KG           | 11/16/92          |           | Benzo[b]fluoranthene                        |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 191242   | < 330.      |                 | UG/KG           | 11/16/92          |           | Benzo[g,h,i]perylene                        |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 207089   | < 330.      |                 | UG/KG           | 11/16/92          |           | Benzo[k]fluoranthene                        |  |  |  |  |
| PF-368-N-40                                                                                                                               | 92.27455   | 65850    | < 330.      |                 | UG/KG           | 11/16/92          |           | Benzoic acid                                |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 100516   | < 330.      |                 | UG/KG           | 11/16/92          |           | Benzyl alcohol                              |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 111911   | < 330.      |                 | UG/KG           | 11/16/92          |           | Bis(2-chloroethoxy)methane                  |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 111444   | < 330.      |                 | UG/KG           | 11/16/92          |           | Bis(2-chloroethyl)ether                     |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 108601   | < 330.      |                 | UG/KG           | 11/16/92          |           | Bis(2-chloroisopropyl)ether                 |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 117817   | < 330.      |                 | UG/KG           | 11/16/92          |           | Bis(2-ethylhexyl)phthalate                  |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 101553   | < 330.      |                 | UG/KG           | 11/16/92          |           | 4-Bromophenylphenyl ether                   |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 85687    | < 330.      |                 | UG/KG           | 11/16/92          |           | Butyl benzyl phthalate                      |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 59507    | < 330.      |                 | UG/KG           | 11/16/92          |           | 4-Chloro-3-methylphenol                     |  |  |  |  |
| PF-368-N-40                                                                                                                               | 92.27455   | 106478   | < 330.      |                 | UG/KG           | 11/16/92          |           | 4-Chloroaniline                             |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 91587    | < 330.      |                 | UG/KG           | 11/16/92          |           | 2-Chloronaphthalene                         |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 95578    | < 330.      |                 | UG/KG           | 11/16/92          |           | o-Chlorophenol                              |  |  |  |  |
| PF-368-N-40                                                                                                                               | 92.27455   | 7005723  | < 330.      |                 | UG/KG           | 11/16/92          |           | 4-Chlorophenylphenyl ether                  |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 218019   | < 330.      |                 | UG/KG           | 11/16/92          |           | Chrysene                                    |  |  |  |  |
| PF-36B-N-40                                                                                                                               | 92.27455   | 84742    | < 330.      |                 | UG/KG           | 11/16/92          |           | Di-n-butyl phthalate                        |  |  |  |  |
|             |          |          | ***        | ******      | *** EM-    | -9 ANALYTICAL R | EPORT * | *********                  |
|-------------|----------|----------|------------|-------------|------------|-----------------|---------|----------------------------|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION      |         | COMPOUND                   |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE            | COMMENT | NAME                       |
| PF-36B-N-40 | 92.27455 | 117840   | < 330.     |             | UG/KG      | 11/16/92        |         | Di-n-octvl obthalate       |
| PF-36B-N-40 | 92.27455 | 53703    | < 330.     |             | ,<br>UG/KG | 11/16/92        |         | Dibenzo[a.h]anthracene     |
| PF-36B-N-40 | 92.27455 | 132649   | < 330.     |             | UG/KG      | 11/16/92        |         | Dibenzofuran               |
| PF-368-N-40 | 92.27455 | 95501    | < 330.     |             | UG/KG      | 11/16/92        |         | o-Dichlorobenzene (1.2)    |
| PF-368-N-40 | 92.27455 | 541731   | < 330.     |             | UG/KG      | 11/16/92        |         | m-Dichlorobenzene (1,3)    |
| PF-368-N-40 | 92.27455 | 106467   | < 330.     |             | UG/KG      | 11/16/92        |         | p=Dichlorobenzene (1,4)    |
| PF-36B-N-40 | 92.27455 | 91941    | < 330.     |             | UG/KG      | 11/16/92        |         | 3.3'-Dichlorobenzidine     |
| PF-36B-N-40 | 92.27455 | 120832   | < 330.     |             | UG/KG      | 11/16/92        |         | 2.4-Dichlorophenol         |
| PF-36B-N-40 | 92.27455 | 84662    | < 330.     |             | UG/KG      | 11/16/92        |         | Diethyl phthalate          |
| PF-368-N-40 | 92.27455 | 131113   | < 330.     |             | UG/KG      | 11/16/92        |         | Dimethyl phthalate         |
| PF-36B-N-40 | 92.27455 | 105679   | < 330.     |             | UG/KG      | 11/16/92        |         | 2.4-Dimethylphenol         |
| PF-36B-N-40 | 92.27455 | 51285    | < 330.     |             | UG/KG      | 11/16/92        |         | 2.4-Dinitrophenol          |
| PF-36B-N-40 | 92.27455 | 121142   | < 330.     |             | UG/KG      | 11/16/92        |         | 2,4-Dinitrotoluene         |
| PF-36B-N-40 | 92.27455 | 606202   | < 330.     |             | UG/KG      | 11/16/92        |         | 2.6-Dinitrotoluene         |
| PF-36B-N-40 | 92.27455 | 206440   | < 330.     |             | UG/KG      | 11/16/92        |         | Fluoranthene               |
| PF-36B-N-40 | 92.27455 | 86737    | < 330.     |             | UG/KG      | 11/16/92        |         | Fluorene                   |
| PF-36B-N-40 | 92.27455 | 118741   | < 330.     |             | UG/KG      | 11/16/92        |         | Hexachlorobenzene          |
| PF-36B-N-40 | 92.27455 | 87683    | < 330.     |             | UG/KG      | 11/16/92        |         | Hexachlorobutadiene        |
| PF-36B-N-40 | 92.27455 | 77474    | < 330.     |             | UG/KG      | 11/16/92        |         | Hexachlorocyclopentadiene  |
| PF-36B-N-40 | 92.27455 | 67721    | < 330.     |             | UG/KG      | 11/16/92        |         | Hexachloroethane           |
| PF-36B-N-40 | 92.27455 | 193395   | < 330.     |             | UG/KG      | 11/16/92        |         | Indeno[1,2,3-cd]pyrene     |
| PF-36B-N-40 | 92.27455 | 78591    | < 330.     |             | UG/KG      | 11/16/92        |         | Isophorone                 |
| PF-36B-N-40 | 92.27455 | 534521   | < 330.     |             | UG/KG      | 11/16/92        |         | 2-Methyl-4,6-dinitrophenol |
| PF-36B-N-40 | 92.27455 | 91576    | < 330.     |             | UG/KG      | 11/16/92        |         | 2-Methylnaphthalene        |
| PF-36B-N-40 | 92.27455 | 95487    | < 330.     |             | UG/KG      | 11/16/92        |         | 2-Methylphenol             |
| PF-36B-N-40 | 92.27455 | 106445   | < 330.     |             | UG/KG      | 11/16/92        |         | 4-Methylphenol             |
| PF-36B-N-40 | 92.27455 | 91203    | < 330.     |             | UG/KG      | 11/16/92        |         | Naphthalene                |
| PF-36B-N-40 | 92.27455 | 88744    | < 330.     |             | UG/KG      | 11/16/92        |         | 2-Nitroaniline             |
| PF-368-N-40 | 92.27455 | 99092    | < 330.     |             | UG/KG      | 11/16/92        |         | 3-Nitroaniline             |
| PF-36B-N-40 | 92.27455 | 100016   | < 330.     |             | UG/KG      | 11/16/92        |         | 4-Nitroaniline             |
| PF-36B-N-40 | 92.27455 | 98953    | < 330.     |             | UG/KG      | 11/16/92        |         | Nitrobenzene               |
| PF-36B-N-40 | 92.27455 | 88755    | < 330.     |             | UG/KG      | 11/16/92        |         | 2-Nitrophenol              |
| PF-36B-N-40 | 92.27455 | 100027   | < 330.     |             | UG/KG      | 11/16/92        |         | 4-Nitrophenol              |
| PF-36B-N-40 | 92.27455 | 621647   | < 330.     |             | UG/KG      | 11/16/92        |         | N-Nitrosodi-n-propylamine  |
| PF-36B-N-40 | 92.27455 | 62759    | < 330.     |             | UG/KG      | 11/16/92        |         | N-Nitrosodimethylamine     |
| PF-36B-     | 92.27455 | 86306    | < 330.     |             | UG/KG      | (16/92          |         | N-Nitrosodiphenylamine     |

REPORT NUMBER: 15911

| ******* EM-9 ANALYTICAL REPORT ************************************ |          |          |            |             |       |            |         |                        |  |  |  |
|---------------------------------------------------------------------|----------|----------|------------|-------------|-------|------------|---------|------------------------|--|--|--|
| CUSTOMER                                                            | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |  |
| NUMBER                                                              | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |  |
| PF-36B-N-40                                                         | 92.27455 | 87865    | < 330.     |             | UG/KG | 11/16/92   |         | Pentachlorophenol      |  |  |  |
| PF-36B-N-40                                                         | 92.27455 | 85018    | < 330.     |             | UG/KG | 11/16/92   |         | Phenanthrene           |  |  |  |
| PF-368-N-40                                                         | 92.27455 | 108952   | < 330.     |             | UG/KG | 11/16/92   |         | Phenol                 |  |  |  |
| PF-368-N-40                                                         | 92.27455 | 129000   | < 330.     |             | UG/KG | 11/16/92   |         | Pyrene                 |  |  |  |
| PF-36B-N-40                                                         | 92.27455 | 120821   | < 330.     |             | UG/KG | 11/16/92   |         | 1,2,4-Trichlorobenzene |  |  |  |
| PF-36B-N-40                                                         | 92.27455 | 95954    | < 330.     |             | UG/KG | 11/16/92   |         | 2,4,5-Trichlorophenol  |  |  |  |
| PF-368-N-40                                                         | 92.27455 | 88062    | < 330.     |             | UG/KG | 11/16/92   |         | 2,4,6-Trichlorophenol  |  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.27455

none

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|                                                                                                         |              |                | ***         | *****           | ** EM-  | 9 ANALYTICAL REPO | ORT ****  | *****                                          |  |  |  |  |
|---------------------------------------------------------------------------------------------------------|--------------|----------------|-------------|-----------------|---------|-------------------|-----------|------------------------------------------------|--|--|--|--|
|                                                                                                         |              |                | EP          | A SEMIVOLATILES | Pre     | pared by: LAK     | . O       | n 16-Nov-1992                                  |  |  |  |  |
| REQUEST NUMBER: 13503 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 145 |              |                |             |                 |         |                   |           |                                                |  |  |  |  |
| OWNER: Ph                                                                                               | ilip R. Fres | squez (        | GROUP: EM-8 | MAIL-STOP:      | K490 P  | HONE: 7-0815      | TECHNIQUE | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |  |  |  |  |
| <u>Customer S</u>                                                                                       | ample Result | ts, Sample # 9 | 92.27456    | ate Collected:  | 9/01/92 | Date Received:    | 9/02/92   | Date Extracted: 9/14/92 Date Analyzed: 9/24/92 |  |  |  |  |
| CUSTOMER                                                                                                | SAMPLE       |                | ANALYTICAL  | ANALYTICAL      |         | COMPLETION        |           | COMPOUND                                       |  |  |  |  |
| NUMBER                                                                                                  | NUMBER       | ANALYSIS       | RESULT      | UNCERTAINTY     | UNITS   | DATE              | COMMENT   | NAME                                           |  |  |  |  |
| PF-368-N-6                                                                                              | 0 92.27456   | 83329          | < 330.      |                 | UG/KG   | 11/16/92          |           | Acenaphthene                                   |  |  |  |  |
| PE-368-N-6                                                                                              | 0 92.27456   | 208968         | < 330.      |                 | UG/KG   | 11/16/92          |           | Acenaphthylene                                 |  |  |  |  |
| PF-36B-N-6                                                                                              | 0 92.27456   | 62533          | < 330.      |                 | UG/KG   | 11/16/92          |           | Aniline                                        |  |  |  |  |
| PF-36B-N-6                                                                                              | 0 92.27456   | 120127         | < 330.      |                 | UG/KG   | 11/16/92          |           | Anthracene                                     |  |  |  |  |
| PF-36B-N-6                                                                                              | 0 92.27456   | 103333         | < 330.      |                 | UG/KG   | 11/16/92          |           | Azobenzene                                     |  |  |  |  |
| PF-368-N-6                                                                                              | 0 92.27456   | 92875          | < 330.      |                 | UG/KG   | 11/16/92          |           | m-Benzidine                                    |  |  |  |  |
| PF-36B-N-6                                                                                              | 0 92.27456   | 56553          | < 330.      |                 | UG/KG   | 11/16/92          |           | Benzo[a]anthracene                             |  |  |  |  |
| PF-36B-N-6                                                                                              | 0 92.27456   | 50328          | < 330.      |                 | UG/KG   | 11/16/92          |           | Benzo[a]pyrene                                 |  |  |  |  |
| PF-368-N-6                                                                                              | 0 92.27456   | 205992         | < 330.      |                 | UG/KG   | 11/16/92          |           | Benzo[b]fluoranthene                           |  |  |  |  |
| PF-36B-N-6                                                                                              | 0 92.27456   | 191242         | < 330.      |                 | UG/KG   | 11/16/92          |           | Benzo[g,h,i]perylene                           |  |  |  |  |
| PF-36B-N-6                                                                                              | o 92.27456   | 207089         | < 330.      |                 | UG/KG   | 11/16/92          |           | Benzo[k]fluoranthene                           |  |  |  |  |
| PF-368-N-6                                                                                              | 60 92.27456  | 65850          | < 330.      |                 | UG/KG   | 11/16/92          |           | Benzoic acid                                   |  |  |  |  |
| PF-368-N-6                                                                                              | 60 92.27456  | 100516         | < 330.      |                 | UG/KG   | 11/16/92          |           | Benzyl alcohol                                 |  |  |  |  |
| PF-368-N-6                                                                                              | 60 92.27456  | 111911         | < 330.      |                 | UG/KG   | 11/16/92          |           | Bis(2-chloroethoxy)methane                     |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 111444         | < 330.      |                 | UG/KG   | 11/16/92          |           | Bis(2-chloroethyl)ether                        |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 108601         | < 330.      |                 | UG/KG   | 11/16/92          |           | Bis(2-chloroisopropyl)ether                    |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 117817         | < 330.      |                 | UG/KG   | 11/16/92          |           | Bis(2-ethylhexyl)phthalate                     |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 101553         | < 330.      |                 | UG/KG   | 11/16/92          |           | 4-Bromophenylphenyl ether                      |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 85687          | < 330.      |                 | UG/KG   | 11/16/92          |           | Butyl benzyl phthalate                         |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 59507          | < 330.      |                 | UG/KG   | 11/16/92          |           | 4-Chloro-3-methylphenol                        |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 106478         | < 330.      |                 | UG/KG   | 11/16/92          |           | 4-Chloroaniline                                |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 91587          | < 330.      |                 | UG/KG   | 11/16/92          |           | 2-Chloronaphthalene                            |  |  |  |  |
| PF-36B-N-6                                                                                              | 50 92.27456  | 95578          | < 330.      |                 | UG/KG   | 11/16/92          |           | o-Chlorophenol                                 |  |  |  |  |
| PF-36B-N-6                                                                                              | 60 92.27456  | 7005723        | < 330.      |                 | UG/KG   | 11/16/92          |           | 4-Chlorophenylphenyl ether                     |  |  |  |  |
| PF-368-N-0                                                                                              | 60 92.27456  | 218019         | < 330.      |                 | UG/KG   | 11/16/92          |           | Chrysene                                       |  |  |  |  |
| PF-368-'                                                                                                | 92.27456     | 6 84742        | < 330.      |                 | UG/KG   | 16/92             |           | Di-n-butyl phthalate                           |  |  |  |  |

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|             |          |          | ***        | *****       | *** EM· | -9 ANALYTICAL RE | EPORT * | ******                     |  |
|-------------|----------|----------|------------|-------------|---------|------------------|---------|----------------------------|--|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION       |         | COMPOUND                   |  |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE             | COMMENT | NAME                       |  |
| PF-368-N-60 | 92.27456 | 117840   | < 330.     |             | UG/KG   | 11/16/92         |         | Di-n-octyl phthalate       |  |
| PF-368-N-60 | 92.27456 | 53703    | < 330.     |             | UG/KG   | 11/16/92         |         | Dibenzo[a.h]anthracene     |  |
| PF-36B-N-60 | 92.27456 | 132649   | < 330.     |             | UG/KG   | 11/16/92         |         | Dibenzofuran               |  |
| PF-36B-N-60 | 92.27456 | 95501    | < 330.     |             | UG/KG   | 11/16/92         |         | o-Dichlorobenzene (1.2)    |  |
| PF-368-N-60 | 92.27456 | 541731   | < 330.     |             | UG/KG   | 11/16/92         |         | m-Dichlorobenzene (1.3)    |  |
| PF-36B-N-60 | 92.27456 | 106467   | < 330.     |             | UG/KG   | 11/16/92         |         | p-Dichlorobenzene (1.4)    |  |
| PF-36B-N-60 | 92.27456 | 91941    | < 330.     |             | UG/KG   | 11/16/92         |         | 3.3'-Dichlorobenzidine     |  |
| PF-36B-N-60 | 92.27456 | 120832   | < 330.     |             | UG/KG   | 11/16/92         |         | 2.4-Dichlorophenol         |  |
| PF-368-N-60 | 92.27456 | 84662    | < 330.     |             | UG/KG   | 11/16/92         |         | Diethyl phthalate          |  |
| PF-368-N-60 | 92.27456 | 131113   | < 330.     |             | UG/KG   | 11/16/92         |         | Dimethyl phthalate         |  |
| PF-36B-N-60 | 92.27456 | 105679   | < 330.     |             | UG/KG   | 11/16/92         |         | 2,4-Dimethylphenol         |  |
| PF-36B-N-60 | 92.27456 | 51285    | < 330.     |             | UG/KG   | 11/16/92         |         | 2,4-Dinitrophenol          |  |
| PF-368-N-60 | 92.27456 | 121142   | < 330.     |             | UG/KG   | 11/16/92         |         | 2,4-Dinitrotoluene         |  |
| PF-36B-N-60 | 92.27456 | 606202   | < 330.     |             | UG/KG   | 11/16/92         |         | 2,6-Dinitrotoluene         |  |
| PF-36B-N-60 | 92.27456 | 206440   | < 330.     |             | UG/KG   | 11/16/92         |         | Fluoranthene               |  |
| PF-36B-N-60 | 92.27456 | 86737    | < 330.     |             | UG/KG   | 11/16/92         |         | Fluorene                   |  |
| PF-36B-N-60 | 92.27456 | 118741   | < 330.     |             | UG/KG   | 11/16/92         |         | Hexachlorobenzene          |  |
| PF-36B-N-60 | 92.27456 | 87683    | < 330.     |             | UG/KG   | 11/16/92         |         | Hexachlorobutadiene        |  |
| PF-368-N-60 | 92.27456 | 77474    | < 330.     |             | UG/KG   | 11/16/92         |         | Hexachlorocyclopentadiene  |  |
| PF-36B-N-60 | 92.27456 | 67721    | < 330.     |             | UG/KG   | 11/16/92         |         | Hexachloroethane           |  |
| PF-368-N-60 | 92.27456 | 193395   | < 330.     |             | UG/KG   | 11/16/92         |         | Indeno[1,2,3-cd]pyrene     |  |
| PF-368-N-60 | 92.27456 | 78591    | < 330.     |             | UG/KG   | 11/16/92         |         | Isophorone                 |  |
| PF-368-N-60 | 92.27456 | 534521   | < 330.     |             | UG/KG   | 11/16/92         |         | 2-Methyl-4,6-dinitrophenol |  |
| PF-36B-N-60 | 92.27456 | 91576    | < 330.     |             | UG/KG   | 11/16/92         |         | 2-Methylnaphthalene        |  |
| PF-368-N-60 | 92.27456 | 95487    | < 330.     |             | UG/KG   | 11/16/92         |         | 2-Methylphenol             |  |
| PF-368-N-60 | 92.27456 | 106445   | < 330.     |             | UG/KG   | 11/16/92         |         | 4-Methylphenol             |  |
| PF-36B-N-60 | 92.27456 | 91203    | < 330.     |             | UG/KG   | 11/16/92         |         | Naphtha lene               |  |
| PF-36B-N-60 | 92.27456 | 88744    | < 330.     |             | UG/KG   | 11/16/92         |         | 2-Nitroaniline             |  |
| PF-368-N-60 | 92.27456 | 99092    | < 330.     |             | UG/KG   | 11/16/92         |         | 3-Nitroaniline             |  |
| PF-36B-N-60 | 92.27456 | 100016   | < 330.     |             | UG/KG   | 11/16/92         |         | 4-Nitroaniline             |  |
| PF-36B-N-60 | 92.27456 | 98953    | < 330.     |             | UG/KG   | 11/16/92         |         | Nitrobenzene               |  |
| PF-36B-N-60 | 92.27456 | 88755    | < 330.     |             | UG/KG   | 11/16/92         |         | 2-Nitrophenol              |  |
| PF-36B-N-60 | 92.27456 | 100027   | < 330.     |             | UG/KG   | 11/16/92         |         | 4-Nitrophenol              |  |
| PF-36B-N-60 | 92.27456 | 621647   | < 330.     |             | UG/KG   | 11/16/92         |         | N-Nitrosodi-n-propylamine  |  |
| PF-36B-N-60 | 92.27456 | 62759    | < 330.     |             | UG/KG   | 11/16/92         |         | N-Nitrosodimethylamine     |  |
| PF-36B-N-60 | 92.27456 | 86306    | < 330.     |             | UG/KG   | 11/16/92         |         | N-Nitrosodiphenylamine     |  |

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|             |          |          | ***        | *********** | ***   | EM-9 ANALYTICAL I | REPORT  | *****                  |
|-------------|----------|----------|------------|-------------|-------|-------------------|---------|------------------------|
| CUSTOMER    | SAMPLE   | · · · ·  | ANALYTICAL | ANALYTICAL  |       | COMPLETION        |         | COMPOUND               |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE              | COMMENT | NAME                   |
| PF-36B-N-60 | 92.27456 | 87865    | < 330.     |             | UG/K  | G 11/16/92        |         | Pentachlorophenol      |
| PF-368-N-60 | 92.27456 | 85018    | < 330.     |             | UG/K  | G 11/16/92        |         | Phenanthrene           |
| PF-36B-N-60 | 92.27456 | 108952   | < 330.     |             | UG/K  | G 11/16/92        |         | Pheno l                |
| PF-36B-N-60 | 92.27456 | 129000   | < 330.     |             | UG/K  | G 11/16/92        |         | Pyrene                 |
| PF-36B-N-60 | 92.27456 | 120821   | < 330.     |             | UG/K  | G 11/16/92        |         | 1,2,4-Trichlorobenzene |
| PF-36B-N-60 | 92.27456 | 95954    | < 330.     |             | UG/K  | G 11/16/92        |         | 2,4,5-Trichlorophenol  |
| PF-368-N-60 | 92.27456 | 88062    | < 330.     |             | UG/K  | G 11/16/92        |         | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.27456

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|                     |                      |                 | ***           | *****         | *** EM- | 9 ANALYTICAL REP | ORT ****     | *****                                           |
|---------------------|----------------------|-----------------|---------------|---------------|---------|------------------|--------------|-------------------------------------------------|
|                     |                      |                 | EPA           | SEMIVOLATILES | i Pre   | epared by: LAK   | 0            | n 16-Nov-1992                                   |
| REQUEST NUMB        | ER: 13503            | B MATRI         | IX: SS ANALYS | T: ANTHONY LO | MBARDO  | Pi               | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                  |
| OWNER: Phil         | ip R. Fres           | squez           | GROUP: EM-8   | MAIL-STOP:    | K490 F  | PHONE: 7-0815    | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |
| <u>Customer Sam</u> | ple Result           | ts, Sample i    | 92.27457 Da   | te Collected: | 9/01/92 | Date Received:   | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |
| CUSTOMER            | SAMPLE               |                 | ANAL YTTCAL   | ANALYTTCAL    |         |                  |              |                                                 |
| NUMBER              | NUMBER               | ANALYSIS        | RESULT        | UNCERTAINTY   | UNITS   | DATE             | COMMENT      | NAME                                            |
|                     |                      |                 |               |               |         |                  |              |                                                 |
| PF-36B-N-100        | 92.27457             | 83329           | < 330.        |               | UG/KG   | 11/16/92         |              | Acenaphthene                                    |
| PF-36B-N-100        | 92.27457             | 208968          | < 330.        |               | UG/KG   | 11/16/92         |              | Acenaphthylene                                  |
| PF-36B-N-100        | 92.27457             | 62533           | < 330.        |               | UG/KG   | 11/16/92         |              | Aniline                                         |
| PF-36B-N-100        | 92.27457             | 120127          | < 330.        |               | UG/KG   | 11/16/92         |              | Anthracene                                      |
| PF-36B-N-100        | 92.27457             | 103333          | < 330.        |               | UG/KG   | 11/16/92         |              | Azobenzene                                      |
| PF-36B-N-100        | 92.27457             | 92875           | < 330.        |               | UG/KG   | 11/16/92         |              | m-Benzidine                                     |
| PF-36B-N-100        | 92.2/45/             | 56553           | < 330.        |               | UG/KG   | 11/16/92         |              | Benzolajanthracene                              |
| PF-368-N-100        | 92.2/45/             | 50328           | < 330.        |               | UG/KG   | 11/16/92         |              | Benzo[a]pyrene                                  |
| PF-36B-N-100        | 92.2/45/             | 205992          | < 330.        |               | UG/KG   | 11/16/92         |              | Benzo[b]fluoranthene                            |
| PF-368-N-100        | 92.2/45/             | 191242          | < 330.        |               | UG/KG   | 11/16/92         |              | Benzo[g,h,i]perylene                            |
| PF-368-N-100        | 92.2/43/             | 20/089          | < 330.        |               |         | 11/16/92         |              | Benzo[k]fluoranthene                            |
| PF-368-N-100        | 92.2/43/             | 100516          | < 330.        |               |         | 11/16/92         |              | Benzoic acid                                    |
| PF-36B-N-100        | 92.2/43/             | 111011          | < 330.        |               |         | 11/16/92         |              | Benzyl alconol                                  |
| PF-36B-N-100        | 92.2/45/             | 111911          | < 330.        |               |         | 11/16/92         |              | Bis (2-ch loroethoxy)methane                    |
| PF-36B-N-100        | 92.2/45/             | 108601          | < 330.        |               |         | 11/10/92         |              | Bis(2-chloroethyl)ether                         |
| PF-368-N-100        | 02 27457             | 117917          | < 330.        |               |         | 11/16/92         |              | Bis (2-othulbasul) abthalate                    |
| PF-368-N-100        | 92.27457             | 101553          | < 330         |               |         | 11/16/92         |              | A - Promonheny Interview to then                |
| PF-368-N-100        | 92.27457             | 85687           | < 330         |               |         | 11/16/92         |              | A Bromophenylphenyl ether                       |
| PF 368-N-100        | 92.27457             | 50507           | < 330         |               |         | 11/16/92         |              | Archiono-2-methylphonol                         |
| DE-368-N-100        | 92 27457             | 106478          | < 330.        |               |         | 11/16/92         |              | - Chlorosniline                                 |
| 9E-368-N-100        | 92 27457             | 91587           | < 330         |               |         | 11/16/92         |              | 2-Chloronanhthalene                             |
| DE-360-N-100        | 92 27457             | 95578           | < 110         |               | UG/KG   | 11/16/02         |              |                                                 |
| DE-360-N-100        | 92 27457             | 7005722         | < 330.        |               |         | 11/16/02         |              | 4-Chlorophenvinhenvi ether                      |
| DE-368-N-100        | 92 27457             | 218010          | < 330         |               |         | 11/16/92         |              | Chrycene                                        |
| PF-308-N-100        | 92.2/43/<br>02 27857 | 610019<br>94743 | ~ 330.        |               |         | 11/10/92         |              | un ysene<br>Dianahutul aktholota                |
| FL-208-M-100        | 92.2/43/             | 04/42           | < 330.        |               | 00/KG   | 11/10/92         |              | DI-H-DULYL PRINALALE                            |

|             | · · · · · · · · · · · · · · · · · · · |          |            |             |       |            |         |                            |  |
|-------------|---------------------------------------|----------|------------|-------------|-------|------------|---------|----------------------------|--|
| CUSTOMER    | SAMPLE                                |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |  |
| NUMBER      | NUMBER                                | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |  |
| PF-368-N-10 | 0 92.27457                            | 117840   | < 330.     |             | UG/KG | 11/16/92   |         | Di-n-octyl phthalate       |  |
| PF-36B-N-10 | 0 92.27457                            | 53703    | < 330.     |             | UG/KG | 11/16/92   |         | Dibenzo[a,h]anthracene     |  |
| PF-368-N-10 | 0 92.27457                            | 132649   | < 330.     |             | UG/KG | 11/16/92   |         | Dibenzofuran               |  |
| PF-368-N-10 | 0 92.27457                            | 95501    | < 330.     |             | UG/KG | 11/16/92   |         | o-Dichlorobenzene (1,2)    |  |
| PF-36B-N-10 | 0 92.27457                            | 541731   | < 330.     |             | UG/KG | 11/16/92   |         | m-Dichlorobenzene (1,3)    |  |
| PF-368-N-10 | 0 92.27457                            | 106467   | < 330.     |             | UG/KG | 11/16/92   |         | p-Dichlorobenzene (1,4)    |  |
| PF-368-N-10 | 0 92.27457                            | 91941    | < 330.     |             | UG/KG | 11/16/92   |         | 3,3'-Dichlorobenzidine     |  |
| PF-368-N-10 | 0 92.27457                            | 120832   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dichlorophenol         |  |
| PF-368-N-10 | 0 92.27457                            | 84662    | < 330.     |             | UG/KG | 11/16/92   |         | Diethyl phthalate          |  |
| PF-36B-N-10 | 0 92.27457                            | 131113   | < 330.     |             | UG/KG | 11/16/92   |         | Dimethyl phthalate         |  |
| PF-36B-N-10 | 0 92.27457                            | 105679   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dimethylphenol         |  |
| PF-368-N-10 | 0 92.27457                            | 51285    | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dinitrophenol          |  |
| PF-368-N-10 | 0 92.27457                            | 121142   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dinitrotoluene         |  |
| PF-36B-N-10 | 0 92.27457                            | 606202   | < 330.     |             | UG/KG | 11/16/92   |         | 2,6-Dinitrotoluene         |  |
| PF-368-N-10 | 0 92.27457                            | 206440   | < 330.     |             | UG/KG | 11/16/92   |         | Fluoranthene               |  |
| PF-36B-N-10 | 0 92.27457                            | 86737    | < 330.     |             | UG/KG | 11/16/92   |         | Fluorene                   |  |
| PF-36B-N-10 | 0 92.27457                            | 118741   | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorobenzene          |  |
| PF-36B-N-10 | 0 92.27457                            | 87683    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorobutadiene        |  |
| PF-36B-N-10 | 0 92.27457                            | 77474    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorocyclopentadiene  |  |
| PF-36B-N-10 | 0 92.27457                            | 67721    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachloroethane           |  |
| PF-36B-N-10 | 0 92.27457                            | 193395   | < 330.     |             | UG/KG | 11/16/92   |         | Indeno[1,2,3-cd]pyrene     |  |
| PF-368-N-10 | 0 92.27457                            | 78591    | < 330.     |             | UG/KG | 11/16/92   |         | Isophorone                 |  |
| PF-36B-N-10 | 0 92.27457                            | 534521   | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methyl-4,6-dinitrophenol |  |
| PF-36B-N-10 | 0 92.27457                            | 91576    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methylnaphthalene        |  |
| PF-36B-N-10 | 0 92.27457                            | 95487    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methylphenol             |  |
| PF-36B-N-10 | 0 92.27457                            | 106445   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Methylphenol             |  |
| PF-36B-N-10 | 0 92.27457                            | 91203    | < 330.     |             | UG/KG | 11/16/92   |         | Naphthalene                |  |
| PF-36B-N-10 | 0 92.27457                            | 88744    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Nitroaniline             |  |
| PF-368-N-10 | 0 92.27457                            | 99092    | < 330.     |             | UG/KG | 11/16/92   |         | 3-Nitroaniline             |  |
| PF-36B-N-10 | 0 92.27457                            | 100016   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Nitroaniline             |  |
| PF-36B-N-10 | 0 92.27457                            | 98953    | < 330.     |             | UG/KG | 11/16/92   |         | Nitrobenzene               |  |
| PF-36B-N-10 | 0 92.27457                            | 88755    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Nitrophenol              |  |
| PF-36B-N-10 | 0 92.27457                            | 100027   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Nitrophenol              |  |
| PF-36B-N-10 | 0 92.27457                            | 621647   | < 330.     |             | UG/KG | 11/16/92   |         | N-Nitrosodi-n-propylamine  |  |
| PF-36B-N-10 | 0 92.27457                            | 62759    | < 330.     |             | UG/KG | 11/16/92   |         | N-Nitrosodimethylamine     |  |
| PF-368-!    | 9 92.27457                            | 86306    | < 330.     |             | UG/KG | 16/92      |         | N~Nitrosodiphenylamine     |  |

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|----------------------------------------|----------|----------|------------|-------------|-------|------------|---------|------------------------|--|--|--|
| CUSTOMER                               | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |  |
| NUMBER                                 | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |  |
| PF-36B-N-100                           | 92.27457 | 87865    | < 330.     |             | UG/KG | 11/16/92   |         | Pentach loropheno l    |  |  |  |
| PF-368-N-100                           | 92.27457 | 85018    | < 330.     |             | UG/KG | 11/16/92   |         | Phenanthrene           |  |  |  |
| PF-36B-N-100                           | 92.27457 | 108952   | < 330.     |             | UG/KG | 11/16/92   |         | Pheno l                |  |  |  |
| PF-36B-N-100                           | 92.27457 | 129000   | < 330.     |             | UG/KG | 11/16/92   |         | Pyrene                 |  |  |  |
| PF-36B-N-100                           | 92.27457 | 120821   | < 330.     |             | UG/KG | 11/16/92   |         | 1,2,4-Trichlorobenzene |  |  |  |
| PF-368-N-100                           | 92.27457 | 95954    | < 330.     |             | UG/KG | 11/16/92   |         | 2,4,5-Trichlorophenol  |  |  |  |
| PF-36B-N-100                           | 92.27457 | 88062    | < 330.     |             | UG/KG | 11/16/92   |         | 2,4,6-Trichlorophenol  |  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.27457

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|                                                                                                         |            |             | ***               | *****           | ** EM~  | 9 ANALYTICAL REPO | DRT ****  | *****                                           |  |  |  |  |
|---------------------------------------------------------------------------------------------------------|------------|-------------|-------------------|-----------------|---------|-------------------|-----------|-------------------------------------------------|--|--|--|--|
|                                                                                                         |            |             | EP/               | A SEMIVOLATILES | Pre     | pared by: LAK     | 0         | n 16-Nov-1992                                   |  |  |  |  |
| REQUEST NUMBER: 13503 MATRIX: SS ANALYST: ANTHONY LOMBARDO PROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 145 |            |             |                   |                 |         |                   |           |                                                 |  |  |  |  |
| OWNER: Phil                                                                                             | ip R. Fres | quez        | GROUP: EM-8       | MAIL-STOP:      | K490 P  | HONE: 7-0815      | TECHNIQUE | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |  |  |  |  |
| <u>Customer Sam</u>                                                                                     | ple Result | s, Sample # | <u>92.27458</u> D | ate Collected:  | 9/01/92 | Date Received:    | 9/02/92   | Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |  |  |  |  |
| CLISTOMER                                                                                               | SAMPL F    |             | ANALYTICAL        | ANALYTICAL      |         | COMPLETION        |           | COMPOUND                                        |  |  |  |  |
| NUMBER                                                                                                  | NUMBER     | ANALYSIS    | RESULT            | UNCERTAINTY     | UNITS   | DATE              | COMMENT   | NAME                                            |  |  |  |  |
|                                                                                                         |            |             |                   |                 |         |                   |           |                                                 |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 83329       | < 330.            |                 | UG/KG   | 11/16/92          |           | Acenaphthene                                    |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 208968      | < 330.            |                 | UG/KG   | 11/16/92          |           | Acenaphthylene                                  |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 62533       | < 330.            |                 | UG/KG   | 11/16/92          |           | Aniline                                         |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 120127      | < 330.            |                 | UG/KG   | 11/16/92          |           | Anthracene                                      |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 103333      | < 330.            |                 | UG/KG   | 11/16/92          |           | Azobenzene                                      |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 92875       | < 330.            |                 | UG/KG   | 11/16/92          |           | m-Benzidine                                     |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 56553       | < 330.            |                 | UG/KG   | 11/16/92          |           | Benzolalanthracene                              |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 50328       | < 330.            |                 | UG/KG   | 11/16/92          |           | Benzolajpyrene                                  |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 205992      | < 330.            |                 | UG/KG   | 11/16/92          |           | Benzolbjfluoranthene                            |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 191242      | < 330.            |                 | UG/KG   | 11/16/92          |           | Benzolg, h, i j perviene                        |  |  |  |  |
| PF-368-N-150                                                                                            | 92.27458   | 207089      | < 330.            |                 | UG/KG   | 11/16/92          |           | Benzo[k]fluoranthene                            |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 65850       | < 330.            |                 | UG/KG   | 11/16/92          |           | Benzoic acid                                    |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 100516      | < 330.            |                 | UG/KG   | 11/16/92          |           | Benzyl alconol                                  |  |  |  |  |
| PF-368-N-150                                                                                            | 92.27458   | 111911      | < 330.            |                 | UG/KG   | 11/16/92          |           | Bis(2-chloroethoxy)methane                      |  |  |  |  |
| PF-368-N-150                                                                                            | 92.27458   | 111444      | < 330.            |                 | UG/KG   | 11/16/92          |           | Bis(2-chloroethyl)ether                         |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 108601      | < 330.            |                 | UG/KG   | 11/16/92          |           | Bis (2-chioroisopropyl)ether                    |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 117817      | < 330.            |                 | UG/KG   | 11/16/92          |           | Bis(2-ethylnexyl)phthalate                      |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 101553      | < 330.            |                 | UG/KG   | 11/16/92          |           | 4-Bromopnenylpnenyl etner                       |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 85687       | < 330.            |                 | UG/KG   | 11/16/92          |           | Butyl benzyl phthalate                          |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 59507       | < 330.            |                 | UG/KG   | 11/16/92          |           | 4-Chloro-3-methylphenol                         |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 106478      | < 330.            |                 | UG/KG   | 11/16/92          |           | 4-Chloroaniline                                 |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 91587       | < 330.            |                 | UG/KG   | 11/16/92          |           | 2-Chloronaphthalene                             |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 95578       | < 330.            |                 | UG/KG   | 11/16/92          |           | o-Chlorophenoł                                  |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 7005723     | < 330.            |                 | UG/KG   | 11/16/92          |           | 4-Chlorophenylphenyl ether                      |  |  |  |  |
| PF-36B-N-150                                                                                            | 92.27458   | 218019      | < 330.            |                 | UG/KG   | 11/16/92          |           | Chrysene                                        |  |  |  |  |
| PF-36B-                                                                                                 | 92.27458   | 84742       | < 330.            |                 | UG/KG   | 6/92              |           | Di-n-butyl phthalate                            |  |  |  |  |

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|              |          |          | ***        | *****       | *** EM | 1-9 ANALYTICAL RE | EPORT * | **********                          |  |
|--------------|----------|----------|------------|-------------|--------|-------------------|---------|-------------------------------------|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |        | COMPLETION        |         | COMPOUND                            |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS  | DATE              | COMMENT | NAME                                |  |
| PF-36B-N-150 | 92.27458 | 117840   | < 330.     |             | UG/KG  | 11/16/92          |         | Di-m-octyl phthalate                |  |
| PF-36B-N-150 | 92.27458 | 53703    | < 330.     |             | UG/KG  | 11/16/92          |         | Dibenzo[a h]anthracene              |  |
| PF-36B-N-150 | 92.27458 | 132649   | < 330.     |             | UG/KG  | 11/16/92          |         | Dibenzofuran                        |  |
| PF-36B-N-150 | 92.27458 | 95501    | < 330.     |             | UG/KG  | 11/16/92          |         | $\alpha$ -Dichlorobenzene (1.2)     |  |
| PF-36B-N-150 | 92.27458 | 541731   | < 330.     |             | UG/KG  | 11/16/92          |         | m-Dichlorobenzene (1,3)             |  |
| PF-36B-N-150 | 92.27458 | 106467   | < 330.     |             | UG/KG  | 11/16/92          |         | $\mathbf{p}$ -Dichlorobenzene (1,4) |  |
| PF-36B-N-150 | 92.27458 | 91941    | < 330.     |             | UG/KG  | 11/16/92          |         | 3.3'-Dichlorohenzidine              |  |
| PF-36B-N-150 | 92.27458 | 120832   | < 330.     |             | UG/KG  | 11/16/92          |         | 2.4-Dichlorophenol                  |  |
| PF-368-N-150 | 92.27458 | 84662    | < 330.     |             | UG/KG  | 11/16/92          |         | Diethyl phthalate                   |  |
| PF-36B-N-150 | 92.27458 | 131113   | < 330.     |             | UG/KG  | 11/16/92          |         | Dimethyl phthalate                  |  |
| PF-368-N-150 | 92.27458 | 105679   | < 330.     |             | UG/KG  | 11/16/92          |         | 2.4-Dimethylphenol                  |  |
| PF-368-N-150 | 92.27458 | 51285    | < 330.     |             | UG/KG  | 11/16/92          |         | 2.4-Dinitrophenol                   |  |
| PF-368-N-150 | 92.27458 | 121142   | < 330.     |             | UG/KG  | 11/16/92          |         | 2.4-Dinitrotoluene                  |  |
| PF-36B-N-150 | 92.27458 | 606202   | < 330.     |             | UG/KG  | 11/16/92          |         | 2.6-Dinitrataluene                  |  |
| PF-36B-N-150 | 92.27458 | 206440   | < 330.     |             | UG/KG  | 11/16/92          |         | Fluoranthene                        |  |
| PF-36B-N-150 | 92.27458 | 86737    | < 330.     |             | UG/KG  | 11/16/92          |         | Fluorene                            |  |
| PF-36B-N-150 | 92.27458 | 118741   | < 330.     |             | UG/KG  | 11/16/92          |         | Hexachlorobenzene                   |  |
| PF-36B-N-150 | 92.27458 | 87683    | < 330.     |             | UG/KG  | 11/16/92          |         | Hexach lorobut adiene               |  |
| PF-36B-N-150 | 92.27458 | 77474    | < 330.     |             | UG/KG  | 11/16/92          |         | Hexachlorocyclopentadiene           |  |
| PF-36B-N-150 | 92.27458 | 67721    | < 330.     |             | UG/KG  | 11/16/92          |         | Hexachloroethane                    |  |
| PF-36B-N-150 | 92.27458 | 193395   | < 330.     |             | UG/KG  | 11/16/92          |         | Indeno[1,2,3-cd]pyrene              |  |
| PF-368-N-150 | 92.27458 | 78591    | < 330.     |             | UG/KG  | 11/16/92          |         | Isophorone                          |  |
| PF-36B-N-150 | 92.27458 | 534521   | < 330.     |             | UG/KG  | 11/16/92          |         | 2-Methyl-4,6-dinitrophenol          |  |
| PF-36B-N-150 | 92.27458 | 91576    | < 330.     |             | UG/KG  | 11/16/92          |         | 2-Methylnaphthalene                 |  |
| PF-368-N-150 | 92.27458 | 95487    | < 330.     |             | UG/KG  | 11/16/92          |         | 2-Methylphenol                      |  |
| PF-368-N-150 | 92.27458 | 106445   | < 330.     |             | UG/KG  | 11/16/92          |         | 4-Methylphenol                      |  |
| PF-36B-N-150 | 92.27458 | 91203    | < 330.     |             | UG/KG  | 11/16/92          |         | Naphthalene                         |  |
| PF-368-N-150 | 92.27458 | 88744    | < 330.     |             | UG/KG  | 11/16/92          |         | 2-Nitroaniline                      |  |
| PF-36B-N-150 | 92.27458 | 99092    | < 330.     |             | UG/KG  | 11/16/92          |         | 3-Nitroaniline                      |  |
| PF-36B-N-150 | 92.27458 | 100016   | < 330.     |             | UG/KG  | 11/16/92          |         | 4-Nitroaniline                      |  |
| PF-36B-N-150 | 92.27458 | 98953    | < 330.     |             | UG/KG  | 11/16/92          |         | Nitrobenzene                        |  |
| PF-36B-N-150 | 92.27458 | 88755    | < 330.     |             | UG/KG  | 11/16/92          |         | 2-Nitrophenol                       |  |
| PF-36B-N-150 | 92.27458 | 100027   | < 330.     |             | UG/KG  | 11/16/92          |         | 4-Nitrophenol                       |  |
| PF-36B-N-150 | 92.27458 | 621647   | < 330.     |             | UG/KG  | 11/16/92          |         | N-Nitrosodi-n-propylamine           |  |
| PF-36B-N-150 | 92.27458 | 62759    | < 330.     |             | UG/KG  | 11/16/92          |         | N-Nitrosodimethylamine              |  |
| PF-36B-N-150 | 92.27458 | 86306    | < 330.     |             | UG/KG  | 11/16/92          |         | N-Nitrosodiphenylamine              |  |

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N-Nitrosodiphenylamine

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|              |          |          | ***        | *****       | *** EM | I-9 ANALYTICAL RI | eport ** | ***********            |  |  |
|--------------|----------|----------|------------|-------------|--------|-------------------|----------|------------------------|--|--|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |        | COMPLETION        |          | COMPOUND               |  |  |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS  | DATE              | COMMENT  | NAME                   |  |  |
| PF-36B-N-150 | 92.27458 | 87865    | < 330.     |             | UG/KG  | 11/16/92          |          | Pentach loropheno l    |  |  |
| PF-36B-N-150 | 92.27458 | 85018    | < 330.     |             | UG/KG  | 11/16/92          |          | Phenanthrene           |  |  |
| PF-368-N-150 | 92.27458 | 108952   | < 330.     |             | UG/KG  | 11/16/92          |          | Phenol                 |  |  |
| PF-36B-N-150 | 92.27458 | 129000   | < 330.     |             | UG/KG  | 11/16/92          |          | Pyrene                 |  |  |
| PF-36B-N-150 | 92.27458 | 120821   | < 330.     |             | UG/KG  | 11/16/92          |          | 1,2,4-Trichlorobenzene |  |  |
| PF-36B-N-150 | 92.27458 | 95954    | < 330.     |             | UG/KG  | 11/16/92          |          | 2,4,5-Trichlorophenol  |  |  |
| PF-36B-N-150 | 92.27458 | 88062    | < 330.     |             | UG/KG  | 11/16/92          |          | 2,4,6-Trichlorophenol  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.27458





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|                     |             |             |              |                 | · · · · · · · · · · · · · · · · · · · |                   |              |                                                |
|---------------------|-------------|-------------|--------------|-----------------|---------------------------------------|-------------------|--------------|------------------------------------------------|
|                     |             |             | ***          | *****           | ** EM-'                               | 9 ANALYTICAL REPO | )RT ****     | *******                                        |
|                     |             |             | EP           | A SEMIVOLATILES | e Pre                                 | pared by: LAK     | Q            | on 16-Nov-1992                                 |
| REQUEST NUME        | BER: 13503  | MATR:       | IX: SS ANALY | ST: ANTHONY LO  | MBARDO                                | PI                | ROGRAM CODE: | : M106 NOTEBOOK: R7336 PAGE: 145               |
| OWNER: Phil         | lip R. Fres | quez        | GROUP: EM-8  | MAIL-STOP:      | K490 P                                | HONE: 7-0815      | TECHNIQUE    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD   |
| <u>Customer Sam</u> | aple Result | s, Sample i | 92.27459 D   | ate Collected:  | 9/01/92                               | Date Received:    | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 9/24/92 |
| CHSTOMED            |             |             | ANALYTICAL   | ANALVIICAL      |                                       |                   |              | COMPOLIND                                      |
| NUMBER              | NUMBER      | ANALYSIS    | RESULT       | UNCERTAINTY     | UNITS                                 | DATE              | COMMENT      | NAME                                           |
| PF-36B-S-20         | 92.27459    | 83329       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Acenaphthene                                   |
| PF-36B-S-20         | 92.27459    | 208968      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Acenaphthylene                                 |
| PF-36B-S-20         | 92.27459    | 62533       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Aniline                                        |
| PF-36B-S-20         | 92.27459    | 120127      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Anthracene                                     |
| PF-36B-S-20         | 92.27459    | 103333      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Azobenzene                                     |
| PF-368-S-20         | 92.27459    | 92875       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | m-Benzidine                                    |
| PF-368-S-20         | 92.27459    | 56553       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Benzo[a]anthracene                             |
| PF-36B-S-20         | 92.27459    | 50328       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Benzo[a]pyrene                                 |
| PF-36B-S-20         | 92.27459    | 205992      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Benzo[b]fluoranthene                           |
| PF-36B-S-20         | 92.27459    | 191242      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Benzo[g,h,i]perylene                           |
| PF-368-S-20         | 92.27459    | 207089      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Benzo[k]fluoranthene                           |
| PF-36B-S-20         | 92.27459    | 65850       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Benzoic acid                                   |
| PF-36B-S-20         | 92.27459    | 100516      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Benzyl alcohol                                 |
| PF-368-S-20         | 92.27459    | 111911      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Bis(2-chloroethoxy)methane                     |
| PF-368-S-20         | 92.27459    | 111444      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Bis(2-chloroethyl)ether                        |
| PF-36B-S-20         | 92.27459    | 108601      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Bis(2-chloroisopropyl)ether                    |
| PF-36B-S-20         | 92.27459    | 117817      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Bis(2-ethylhexyl)phthalate                     |
| PF-36B-S-20         | 92.27459    | 101553      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | 4-Bromophenylphenyl ether                      |
| PF-36B-S-20         | 92.27459    | 85687       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Butyl benzyl phthalate                         |
| PF-36B-S-20         | 92.27459    | 59507       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | 4-Chioro-3-methylphenol                        |
| PF-36B-S-20         | 92.27459    | 106478      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | 4-Chloroaniline                                |
| PF-36B-S-20         | 92.27459    | 91587       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | 2-Chloronaphthalene                            |
| PF-36B-S-20         | 92.27459    | 95578       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | o-Chlorophenol                                 |
| PF-36B-S-20         | 92.27459    | 7005723     | < 330.       |                 | UG/KG                                 | 11/16/92          |              | 4-Chlorophenylphenyl ether                     |
| PF-36B-S-20         | 92.27459    | 218019      | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Chrysene                                       |
| PF-368-S-20         | 92.27459    | 84742       | < 330.       |                 | UG/KG                                 | 11/16/92          |              | Di-n-butyl phthalate                           |

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|            |          |          |            |             | EM-     | 9 ANALYTICAL RI |         |                            |
|------------|----------|----------|------------|-------------|---------|-----------------|---------|----------------------------|
| USTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION      |         | COMPOUND                   |
| NUMBER     | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE            | COMMENT | NAME                       |
| F-36B-S-20 | 92.27459 | 117840   | < 330.     |             | UG/KG   | 11/16/92        |         | Di-n-octyl phthalate       |
| F-36B-S-20 | 92.27459 | 53703    | < 330.     |             | UG/KG   | 11/16/92        |         | Dibenzo[a,h]anthracene     |
| -36B-S-20  | 92.27459 | 132649   | < 330.     |             | UG/KG   | 11/16/92        |         | Dibenzofuran               |
| -36B-S-20  | 92.27459 | 95501    | < 330.     |             | UG/KG   | 11/16/92        |         | o-Dichlorobenzene (1,2)    |
| -36B-S-20  | 92.27459 | 541731   | < 330.     |             | UG/KG   | 11/16/92        |         | m-Dichlorobenzene (1,3)    |
| -36B-S-20  | 92.27459 | 106467   | < 330.     |             | UG/KG   | 11/16/92        |         | p-Dichlorobenzene (1,4)    |
| -36B-S-20  | 92.27459 | 91941    | < 330.     |             | UG/KG   | 11/16/92        |         | 3,3'-Dichlorobenzidine     |
| -36B-S-20  | 92.27459 | 120832   | < 330.     |             | UG/KG   | 11/16/92        |         | 2,4-Dichlorophenol         |
| -36B-S-20  | 92.27459 | 84662    | < 330.     |             | UG/KG   | 11/16/92        |         | Diethyl phthalate          |
| -36B-S-20  | 92.27459 | 131113   | < 330.     |             | UG/KG   | 11/16/92        |         | Dimethyl phthalate         |
| -36B-S-20  | 92.27459 | 105679   | < 330.     |             | UG/KG   | 11/16/92        |         | 2,4-Dimethylphenol         |
| -36B-S-20  | 92.27459 | 51285    | < 330.     |             | UG/KG   | 11/16/92        |         | 2,4-Dinitrophenol          |
| -36B-S-20  | 92.27459 | 121142   | < 330.     |             | UG/KG   | 11/16/92        |         | 2,4-Dinitrotoluene         |
| -36B-S-20  | 92.27459 | 606202   | < 330.     |             | UG/KG   | 11/16/92        |         | 2,6-Dinitrotoluene         |
| -36B-S-20  | 92.27459 | 206440   | < 330.     |             | UG/KG   | 11/16/92        |         | Fluoranthene               |
| -36B-S-20  | 92.27459 | 86737    | < 330.     |             | UG/KG   | 11/16/92        |         | Fluorene                   |
| -368-5-20  | 92.27459 | 118741   | < 330.     |             | UG/KG   | 11/16/92        |         | Hexachlorobenzene          |
| -36B-S-20  | 92.27459 | 87683    | < 330.     |             | UG/KG   | 11/16/92        |         | Hexachlorobutadiene        |
| -36B-S-20  | 92.27459 | 77474    | < 330.     |             | UG/KG   | 11/16/92        |         | Hexachlorocyclopentadiene  |
| -36B-S-20  | 92.27459 | 67721    | < 330.     |             | UG/KG   | 11/16/92        |         | Hexachloroethane           |
| -368-5-20  | 92.27459 | 193395   | < 330.     |             | UG/KG   | 11/16/92        |         | Indeno[1,2,3-cd]pyrene     |
| -36B-S-20  | 92.27459 | 78591    | < 330.     |             | UG/KG   | 11/16/92        |         | Isophorone                 |
| -36B-S-20  | 92.27459 | 534521   | < 330.     |             | UG/KG   | 11/16/92        |         | 2-Methyl-4,6-dinitrophenol |
| -36B-S-20  | 92.27459 | 91576    | < 330.     |             | UG/KG   | 11/16/92        |         | 2-Methy Inaphthalene       |
| -36B-S-20  | 92.27459 | 95487    | < 330.     |             | UG/KG   | 11/16/92        |         | 2-Methylphenol             |
| -368-S-20  | 92.27459 | 106445   | < 330.     |             | UG/KG   | 11/16/92        |         | 4-Methylphenol             |
| -368-5-20  | 92.27459 | 91203    | < 330.     |             | UG/KG   | 11/16/92        |         | Naphthalene                |
| -36B-S-20  | 92.27459 | 88744    | < 330.     |             | UG/KG   | 11/16/92        |         | 2-Nitroaniline             |
| -368-S-20  | 92.27459 | 99092    | < 330.     |             | UG/KG   | 11/16/92        |         | 3-Nitroaniline             |
| -36B-S-20  | 92.27459 | 100016   | < 330.     |             | UG/KG   | 11/16/92        |         | 4-Nitroaniline             |
| -368-S-20  | 92.27459 | 98953    | < 330.     |             | UG/KG   | 11/16/92        |         | Nitrobenzene               |
| -36B-S-20  | 92.27459 | 88755    | < 330.     |             | UG/KG   | 11/16/92        |         | 2-Nitrophenol              |
| -36B-S-20  | 92.27459 | 100027   | < 330.     |             | UG/KG   | 11/16/92        |         | 4-Nitrophenol              |
| -36B-S-20  | 92.27459 | 621647   | < 330.     |             | UG/KG   | 11/16/92        |         | N-Nitrosodi-n-propylamine  |
| -368-5-20  | 92.27459 | 62759    | < 330.     |             | UG/KG   | 11/16/92        |         | N-Nitrosodimethylamine     |
| F-368-9    | 92 27459 | 86306    | < 330.     |             | LIG /KG | (16/92          |         | N-Nitracadinhanylamina     |



|                    |                  |          | ***                  | ************************************** |       |                    |         |                        |  |  |  |
|--------------------|------------------|----------|----------------------|----------------------------------------|-------|--------------------|---------|------------------------|--|--|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY              | UNITS | COMPLETION<br>DATE | COMMENT | COMPOUND<br>NAME       |  |  |  |
| PF-368-S-20        | 92.27459         | 87865    | < 330.               |                                        | UG/KG | 11/16/92           |         | Pentachlorophenol      |  |  |  |
| PF-36B-S-20        | 92.27459         | 85018    | < 330.               |                                        | UG/KG | 11/16/92           |         | Phenanthrepe           |  |  |  |
| PF-36B-S-20        | 92.27459         | 108952   | < 330.               |                                        | UG/KG | 11/16/92           |         | Phenol                 |  |  |  |
| PF-36B-S-20        | 92.27459         | 129000   | < 330.               |                                        | UG/KG | 11/16/92           |         | Pyrene                 |  |  |  |
| PF-36B-S-20        | 92.27459         | 120821   | < 330.               |                                        | ÚG/KG | 11/16/92           |         | 1 2 4-Trichlorobenzene |  |  |  |
| PF-36B-S-20        | 92.27459         | 95954    | < 330.               |                                        | UG/KG | 11/16/92           |         | 2 4 5-Trichlorophenel  |  |  |  |
| PF-368-S-20        | 92.27459         | 88062    | < 330.               |                                        | UG/KG | 11/16/92           |         | 2,4,6-Trichlorophenol  |  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.27459

|                     |            |               | ***               | *****           | ** EM-9 | ANALYTICAL REPO | )RT *****    | *****                                           |
|---------------------|------------|---------------|-------------------|-----------------|---------|-----------------|--------------|-------------------------------------------------|
|                     |            |               | EP                | A SEMIVOLATILES | Prep    | bared by: LAK   | or           | 16-Nov-1992                                     |
| REQUEST NUMB        | ER: 13503  | MATRIX:       | SS ANALY          | ST: ANTHONY LO  | MBARDO  | PI              | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                  |
| OWNER: Phil         | ip R. Fres | quez G        | GROUP: EM-8       | MAIL-STOP:      | K490 PI | HONE: 7-0815    | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |
| <u>Customer Sam</u> | ple Result | s, Sample # 9 | <u>92.27460</u> D | ate Collected:  | 9/01/92 | Date Received:  | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |
| CUSTOMED            |            |               | ΔΝΔΙ ΥΤΙζΔΙ       | ANALYTTCAL      |         | COMPLETION      |              | COMPOUND                                        |
| NUMBER              | NUMBER     | ANALYSIS      | RESULT            | UNCERTAINTY     | UNITS   | DATE            | COMMENT      | NAME                                            |
|                     |            |               |                   |                 |         |                 |              |                                                 |
| PF-36B-S-40         | 92.27460   | 83329         | < 330.            |                 | UG/KG   | 11/16/92        |              | Acenaphthene                                    |
| PF-36B-S-40         | 92.27460   | 208968        | < 330.            |                 | UG/KG   | 11/16/92        |              | Acenaphthylene                                  |
| PF-36B-S-40         | 92.27460   | 62533         | < 330.            |                 | UG/KG   | 11/16/92        |              | Aniline                                         |
| PF-36B-S-40         | 92.27460   | 120127        | < 330.            |                 | UG/KG   | 11/16/92        |              | Anthracene                                      |
| PF-36B-S-40         | 92.27460   | 103333        | < 330.            |                 | UG/KG   | 11/16/92        |              | Azobenzene                                      |
| PF-36B-S-40         | 92.27460   | 92875         | < 330.            |                 | UG/KG   | 11/16/92        |              | m-Benzidine                                     |
| PF-36B-S-40         | 92.27460   | 56553         | < 330.            |                 | UG/KG   | 11/16/92        |              | Benzo[a]anthracene                              |
| PF-36B-S-40         | 92.27460   | 50328         | < 330.            |                 | UG/KG   | 11/16/92        |              | Benzo[a]pyrene                                  |
| PF-36B-S-40         | 92.27460   | 205992        | < 330.            |                 | UG/KG   | 11/16/92        |              | Benzo[b]fluoranthene                            |
| PF-36B-S-40         | 92.27460   | 191242        | < 330.            |                 | UG/KG   | 11/16/92        |              | Benzo[g,h,i]perylene                            |
| PF-36B-S-40         | 92.27460   | 207089        | < 330.            |                 | UG/KG   | 11/16/92        |              | Benzo[k]fluoranthene                            |
| PF-36B-S-40         | 92.27460   | 65850         | < 330.            |                 | UG/KG   | 11/16/92        |              | Benzoic acid                                    |
| PF-368-S-40         | 92.27460   | 100516        | < 330.            |                 | UG/KG   | 11/16/92        |              | Benzyi alcohol                                  |
| PF-36B-S-40         | 92.27460   | 111911        | < 330.            |                 | UG/KG   | 11/16/92        |              | Bis(2-chloroethoxy)methane                      |
| PF-36B-S-40         | 92.27460   | 111444        | < 330.            |                 | UG/KG   | 11/16/92        |              | Bis(2-chloroethyl)ether                         |
| PF-36B-S-40         | 92.27460   | 108601        | < 330.            |                 | UG/KG   | 11/16/92        |              | Bis(2-chloroisopropyl)ether                     |
| PF-36B-S-40         | 92.27460   | 117817        | 390.              | 117.            | UG/KG   | 11/16/92        |              | Bis(2-ethylhexyl)phthalate                      |
| PF-36B-S-40         | 92.27460   | 101553        | < 330.            |                 | UG/KG   | 11/16/92        |              | 4-Bromophenylphenyl ether                       |
| PF-36B-S-40         | 92.27460   | 85687         | < 330.            |                 | UG/KG   | 11/16/92        |              | Butyi benzyl phthalate                          |
| PF-36B-S-40         | 92.27460   | 59507         | < 330.            |                 | UG/KG   | 11/16/92        |              | 4-Chloro-3-methylphenol                         |
| PF-368-S-40         | 92,27460   | 106478        | < 330.            |                 | UG/KG   | 11/16/92        |              | 4-Chloroaniline                                 |
| PE-368-5-40         | 92,27460   | 91587         | < 330.            |                 | UG/KG   | 11/16/92        |              | 2-Chloronaphthalene                             |
| PF-368-S-40         | 92,27460   | 95578         | < 330.            |                 | UG/KG   | 11/16/92        |              | o-Chlorophenol                                  |
| PF-368-5-40         | 92,27460   | 7005723       | < 330.            |                 | UG/KG   | 11/16/92        |              | 4-Chlorophenylphenyl ether                      |
| PF-368-9-40         | 92.27460   | 218019        | < 330.            |                 | UG/KG   | 11/16/92        |              | Chrysene                                        |
| PF-36B              | 92.27460   | 84742         | < 330.            |                 | UG/KG   | 16/92           |              | Di-n-butyl phthalate                            |

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| *****             | EM-  |
|-------------------|------|
| ***************** | EM-9 |

-9 ANALYTICAL REPORT

| ۱L | REPORT | ***** |
|----|--------|-------|
|----|--------|-------|

| CUSTOMER    | SAMPLE                               |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |
|-------------|--------------------------------------|----------|------------|-------------|-------|------------|---------|----------------------------|
| NUMBER      | NUMBER                               | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |
|             |                                      |          |            |             |       |            |         |                            |
| PF-36B-S-40 | 92.27460                             | 117840   | < 330.     |             | UG/KG | 11/16/92   |         | Di-n-octyl phthalate       |
| PF-36B-S-40 | 92.27460                             | 53703    | < 330.     |             | UG/KG | 11/16/92   |         | Dibenzo[a,h]anthracene     |
| PF-36B-S-40 | 92.27460                             | 132649   | < 330.     |             | UG/KG | 11/16/92   |         | Dibenzofuran               |
| PF-36B-S-40 | 92.27460                             | 95501    | < 330.     |             | UG/KG | 11/16/92   |         | o-Dichlorobenzene (1,2)    |
| PF-36B-S-40 | 92.27460                             | 541731   | < 330.     |             | UG/KG | 11/16/92   |         | m-Dichlorobenzene (1,3)    |
| PF-36B-S-40 | 92.27460                             | 106467   | < 330.     |             | UG/KG | 11/16/92   |         | p-Dichlorobenzene (1,4)    |
| PF-36B-S-40 | 92.27460                             | 91941    | < 330.     |             | UG/KG | 11/16/92   |         | 3,3'-Dichlorobenzidine     |
| PF-36B-S-40 | 92.27460                             | 120832   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dichlorophenol         |
| PF-36B-S-40 | 92.27460                             | 84662    | < 330.     |             | UG/KG | 11/16/92   |         | Diethyl phthalate          |
| PF-36B-S-40 | 92.27460                             | 131113   | < 330.     |             | UG/KG | 11/16/92   |         | Dimethyl phthalate         |
| PF-36B-S-40 | 92.27460                             | 105679   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dimethylphenol         |
| PF-36B-S-40 | 92.27460                             | 51285    | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dinitrophenol          |
| PF-36B-S-40 | 92.27460                             | 121142   | < 330.     |             | UG/KG | 11/16/92   |         | 2,4-Dinitrotoluene         |
| PF-36B-S-40 | 92.27460                             | 606202   | < 330.     |             | UG/KG | 11/16/92   |         | 2,6-Dinitrotoluene         |
| PF-36B-S-40 | 92.27460                             | 206440   | < 330.     |             | UG/KG | 11/16/92   |         | Fluoranthene               |
| PF-36B-S-40 | 92.27460                             | 86737    | < 330.     |             | UG/KG | 11/16/92   |         | Fluorene                   |
| PF-36B-S-40 | 92.27460                             | 118741   | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorobenzene          |
| PF-36B-S-40 | 92.27460                             | 87683    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorobutadiene        |
| PF-36B-S-40 | 92.27460                             | 77474    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachlorocyclopentadiene  |
| PF-36B-S-40 | 92.27460                             | 67721    | < 330.     |             | UG/KG | 11/16/92   |         | Hexachloroethane           |
| PF-36B-S-40 | 92.27460                             | 193395   | < 330.     |             | UG/KG | 11/16/92   |         | Indeno[1,2,3-cd]pyrene     |
| PF-36B-S-40 | 92.27460                             | 78591    | < 330.     |             | UG/KG | 11/16/92   |         | Isophorone                 |
| PF-36B-S-40 | 92.27460                             | 534521   | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methyl-4,6-dinitrophenol |
| PF-36B-S-40 | 92.27460                             | 91576    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methylnaphthalene        |
| PF-368-S-40 | 92.27460                             | 95487    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Methylphenol             |
| PF-368-S-40 | 92.27460                             | 106445   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Methylphenol             |
| PF-36B-S-40 | 92.27460                             | 91203    | < 330.     |             | UG/KG | 11/16/92   |         | Naphthalene                |
| PF-36B-S-40 | 92.27460                             | 88744    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Nitroaniline             |
| PF-36B-S-40 | 92.27460                             | 99092    | < 330.     |             | UG/KG | 11/16/92   |         | 3-Nitroaniline             |
| PF-36B-S-40 | 92.27460                             | 100016   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Nitroaniline             |
| PF-36B-S-40 | 92.27460                             | 98953    | < 330.     |             | UG/KG | 11/16/92   |         | Nitrobenzene               |
| PF-368-S-40 | 92.27460                             | 88755    | < 330.     |             | UG/KG | 11/16/92   |         | 2-Nitrophenol              |
| PF-36B-S-40 | 92.27460                             | 100027   | < 330.     |             | UG/KG | 11/16/92   |         | 4-Nitrophenol              |
| PF-368-S-40 | 92.27460                             | 621647   | < 330.     |             | UG/KG | 11/16/92   |         | N-Nitrosodi-n-propylamine  |
| PF-368-S-40 | 92.27460                             | 62759    | < 330.     |             | UG/KG | 11/16/92   |         | N-Nitrosodimethylamine     |
| PF-36R-S-40 | 92,27460                             | 86306    | < 330.     |             | UG/KG | 11/16/92   |         | N-Nitrosodinhenvlamine     |
| 1 300 3 40  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 00000    |            |             |       |            |         | a are, osoarpheny tailine  |

|             |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT * | *******                |  |
|-------------|----------|----------|------------|-------------|---------|----------------|---------|------------------------|--|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |         | COMPOUND               |  |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT | NAME                   |  |
| PF-36B-S-40 | 92.27460 | 87865    | < 330.     |             | UG/KG   | 11/16/92       |         | Pentach loropheno l    |  |
| PF-36B-S-40 | 92.27460 | 85018    | < 330.     |             | UG/KG   | 11/16/92       |         | Phenanthrene           |  |
| PF-36B-S-40 | 92.27460 | 108952   | < 330.     |             | UG/KG   | 11/16/92       |         | Pheno l                |  |
| PF-36B-S-40 | 92.27460 | 129000   | < 330.     |             | UG/KG   | 11/16/92       |         | Pyrene                 |  |
| PF-368-S-40 | 92.27460 | 120821   | < 330.     |             | UG/KG   | 11/16/92       |         | 1,2,4-Trichlorobenzene |  |
| PF-36B-S-40 | 92.27460 | 95954    | < 330.     |             | UG/KG   | 11/16/92       |         | 2,4,5-Trichlorophenol  |  |
| PF-36B-S-40 | 92.27460 | 88062    | < 330.     |             | UG/KG   | 11/16/92       |         | 2,4,6-Trichlorophenol  |  |

Tentatively Identified Compounds in Customer Sample # 92.27460

none

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|                     |             |              | ***         | *****            | ** EM-  | 9 ANALYTICAL REP | ORT ****     | *******                                         |
|---------------------|-------------|--------------|-------------|------------------|---------|------------------|--------------|-------------------------------------------------|
|                     |             |              | Ef          | PA SEMIVOLATILES | Pre     | pared by: LAK    | C            | on 16-Nov-1992                                  |
| REQUEST NUME        | BER: 13503  | B MATRI      | X: SS ANALY | ST: ANTHONY LO   | MBARDO  | P                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                  |
| OWNER: Phil         | lip R. Fres | squez        | GROUP: EM-8 | MAIL-STOP:       | K490 P  | HONE: 7-0815     | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD     |
| <u>Customer Sam</u> | nple Result | ts, Sample # | 92.27461    | Oate Collected:  | 9/01/92 | Date Received:   | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 10/05/92 |
| CUSTOMER            | SAMPI F     |              | ANAL YTTCAL | ΑΝΔΙ ΥΤΤΓΑΙ      |         |                  |              | COMPONING                                       |
| NUMBER              | NUMBER      | ANALYSIS     | RESULT      | UNCERTAINTY      | UNITS   | DATE             | COMMENT      | NAME                                            |
|                     |             |              |             |                  |         |                  |              |                                                 |
| PF-368-S-60         | 92.27461    | 83329        | < 660.      |                  | UG/KG   | 11/16/92         |              | Acenaphthene                                    |
| PF-36B-S-60         | 92.27461    | 208968       | < 660.      |                  | UG/KG   | 11/16/92         |              | Acenaphthylene                                  |
| PF-36B-S-60         | 92.27461    | 62533        | < 660.      |                  | UG/KG   | 11/16/92         |              | Aniline                                         |
| PF-36B-S-60         | 92.27461    | 120127       | < 660.      |                  | UG/KG   | 11/16/92         |              | Anthracene                                      |
| PF-36B-S-60         | 92.27461    | 103333       | < 660.      |                  | UG/KG   | 11/16/92         |              | Azobenzene                                      |
| PF-36B-S-60         | 92.27461    | 92875        | < 660.      |                  | UG/KG   | 11/16/92         |              | m-Benzidine                                     |
| PF-368-S-60         | 92.27461    | 56553        | < 660.      |                  | UG/KG   | 11/16/92         |              | Benzo[a]anthracene                              |
| PF-36B-S-60         | 92.27461    | 50328        | < 660.      |                  | UG/KG   | 11/16/92         |              | Benzo[a]pyrene                                  |
| PF-36B-S-60         | 92.27461    | 205992       | < 660.      |                  | UG/KG   | 11/16/92         |              | Benzo[b]fluoranthene                            |
| PF-36B-S-60         | 92.27461    | 191242       | < 660.      |                  | UG/KG   | 11/16/92         |              | Benzo[g,h,i]perylene                            |
| PF-368-S-60         | 92.27461    | 207089       | < 660.      |                  | UG/KG   | 11/16/92         |              | Benzo[k]fluoranthene                            |
| PF-36B-S-60         | 92.27461    | 65850        | < 660.      |                  | UG/KG   | 11/16/92         |              | Benzoic acid                                    |
| PF-36B-S-60         | 92.27461    | 100516       | < 660.      |                  | UG/KG   | 11/16/92         |              | Benzyl alcohol                                  |
| PF-368-S-60         | 92.27461    | 111911       | < 660.      |                  | UG/KG   | 11/16/92         |              | Bis(2-chloroethoxy)methane                      |
| PF-368-S-60         | 92.27461    | 111444       | < 660.      |                  | UG/KG   | 11/16/92         |              | Bis(2-chloroethyl)ether                         |
| PF-36B-S-60         | 92.27461    | 108601       | < 660.      |                  | UG/KG   | 11/16/92         |              | Bis(2-chloroisopropyl)ether                     |
| PF-36B-S-60         | 92.27461    | 117817       | < 660.      |                  | UG/KG   | 11/16/92         |              | Bis(2-ethylhexyl)phthalate                      |
| PF-368-S-60         | 92.27461    | 101553       | < 660.      |                  | UG/KG   | 11/16/92         |              | 4-Bromophenylphenyl ether                       |
| PF-36B-S-60         | 92.27461    | 85687        | < 660.      |                  | UG/KG   | 11/16/92         |              | Butyl benzyl phthalate                          |
| PF-368-S-60         | 92.27461    | 59507        | < 660.      |                  | UG/KG   | 11/16/92         |              | 4-Chloro-3-methylphenol                         |
| PF-36B-S-60         | 92.27461    | 106478       | < 660.      |                  | UG/KG   | 11/16/92         |              | 4-Chloroaniline                                 |
| PF-368-S-60         | 92.27461    | 91587        | < 660.      |                  | UG/KG   | 11/16/92         |              | 2-Chloronaphthalene                             |
| PF-36B-S-60         | 92.27461    | 95578        | < 660.      |                  | UG/KG   | 11/16/92         |              | o-Chlorophenol                                  |
| PF-36B-S-60         | 92.27461    | 7005723      | < 660.      |                  | UG/KG   | 11/16/92         |              | 4-Chlorophenylphenyl ether                      |
| PF-36B-S-60         | 92.27461    | 218019       | < 660.      |                  | UG/KG   | 11/16/92         |              | Chrysene                                        |
| PF-36B-S-60         | 92.27461    | 84742        | < 660.      |                  | UG/KG   | 11/16/92         |              | Di-n-butyl phthalate                            |

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|             |          |          | ***        | ******      | *** EM-    | 9 ANALYTICAL R | EPORT ** | *******                    |  |
|-------------|----------|----------|------------|-------------|------------|----------------|----------|----------------------------|--|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION     |          | COMPOUND                   |  |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE           | COMMENT  | NAME                       |  |
| PF-368-5-60 | 92.27461 | 117840   | < 660.     |             | UG/KG      | 11/16/92       |          | Di-n-octyl phthalate       |  |
| PF-36B-S-60 | 92.27461 | 53703    | < 660.     |             | UG/KG      | 11/16/92       |          | Dibenzo[a,h]anthracene     |  |
| PF-36B-S-60 | 92.27461 | 132649   | < 660.     |             | UG/KG      | 11/16/92       |          | Dibenzofuran               |  |
| PF-36B-S-60 | 92.27461 | 95501    | < 660.     |             | UG/KG      | 11/16/92       |          | o-Dichlorobenzene (1,2)    |  |
| PF-36B-S-60 | 92.27461 | 541731   | < 660.     |             | UG/KG      | 11/16/92       |          | m-Dichlorobenzene (1,3)    |  |
| PF-36B-S-60 | 92.27461 | 106467   | < 660.     |             | UG/KG      | 11/16/92       |          | p-Dichlorobenzene (1,4)    |  |
| PF-368-S-60 | 92.27461 | 91941    | < 660.     |             | UG/KG      | 11/16/92       |          | 3,3'~Dichlorobenzidine     |  |
| PF-36B-S-60 | 92.27461 | 120832   | < 660.     |             | UG/KG      | 11/16/92       |          | 2,4-Dichlorophenol         |  |
| PF-36B-S-60 | 92.27461 | 84662    | < 660.     |             | UG/KG      | 11/16/92       |          | Diethyl phthalate          |  |
| PF-36B-S-60 | 92.27461 | 131113   | < 660.     |             | UG/KG      | 11/16/92       |          | Dimethyl phthalate         |  |
| PF-36B-S-60 | 92.27461 | 105679   | < 660.     |             | UG/KG      | 11/16/92       |          | 2,4-Dimethylphenol         |  |
| PF-36B-S-60 | 92.27461 | 51285    | < 660.     |             | UG/KG      | 11/16/92       |          | 2,4-Dinitrophenol          |  |
| PF-368-S-60 | 92.27461 | 121142   | < 660.     |             | UG/KG      | 11/16/92       |          | 2,4-Dinitrotoluene         |  |
| PF-36B-S-60 | 92.27461 | 606202   | < 660.     |             | UG/KG      | 11/16/92       |          | 2,6-Dinitrotoluene         |  |
| PF-36B-S-60 | 92.27461 | 206440   | < 660.     |             | UG/KG      | 11/16/92       |          | Fluoranthene               |  |
| PF-368-S-60 | 92.27461 | 86737    | < 660.     |             | UG/KG      | 11/16/92       |          | Fluorene                   |  |
| PF-36B-S-60 | 92.27461 | 118741   | < 660.     |             | UG/KG      | 11/16/92       |          | Hexachlorobenzene          |  |
| PF-36B-S-60 | 92.27461 | 87683    | < 660.     |             | UG/KG      | 11/16/92       |          | Hexachlorobutadiene        |  |
| PF-36B-S-60 | 92.27461 | 77474    | < 660.     |             | UG/KG      | 11/16/92       |          | Hexachlorocyclopentadiene  |  |
| PF-36B-S-60 | 92.27461 | 67721    | < 660.     |             | UG/KG      | 11/16/92       |          | Hexachloroethane           |  |
| PF-36B-S-60 | 92.27461 | 193395   | < 660.     |             | UG/KG      | 11/16/92       |          | Indeno[1,2,3-cd]pyrene     |  |
| PF-36B-S-60 | 92.27461 | 78591    | < 660.     |             | UG/KG      | 11/16/92       |          | Isophorone                 |  |
| PF-36B-S-60 | 92.27461 | 534521   | < 660.     |             | UG/KG      | 11/16/92       |          | 2-Methyl-4,6-dinitrophenol |  |
| PF-36B-S-60 | 92.27461 | 91576    | < 660.     |             | UG/KG      | 11/16/92       |          | 2~Methylnaphthalene        |  |
| PF-36B-S-60 | 92.27461 | 95487    | < 660.     |             | UG/KG      | 11/16/92       |          | 2-Methylphenol             |  |
| PF-36B-S-60 | 92.27461 | 106445   | < 660.     |             | UG/KG      | 11/16/92       |          | 4-Methylphenol             |  |
| PF-36B-S-60 | 92.27461 | 91203    | < 660.     |             | UG/KG      | 11/16/92       |          | Naphthalene                |  |
| PF-36B-S-60 | 92.27461 | 88744    | < 660.     |             | UG/KG      | 11/16/92       |          | 2-Nitroaniline             |  |
| PF-36B-S-60 | 92.27461 | . 99092  | < 660.     |             | UG/KG      | 11/16/92       |          | 3-Nitroaniline             |  |
| PF-36B-S-60 | 92.27461 | 100016   | < 660.     |             | UG/KG      | 11/16/92       |          | 4-Nitroaniline             |  |
| PF-36B-S-60 | 92.27461 | 98953    | < 660.     |             | UG/KG      | 11/16/92       |          | Nitrobenzene               |  |
| PF-36B-S-60 | 92.27461 | 88755    | < 660.     |             | UG/KG      | 11/16/92       |          | 2-Nitrophenol              |  |
| PF-368-S-60 | 92,27461 | 100027   | < 660.     |             | ,<br>UG/KG | 11/16/92       |          | 4-Nitrophenol              |  |
| PF-368-S-60 | 92,27461 | 621647   | < 660.     |             | UG/KG      | 11/16/92       |          | N-Nitrosodi-n-propylamine  |  |
| PF-368-5-60 | 92,27461 | 62759    | < 660.     |             | UG/KG      | 11/16/92       |          | N-Nitrosodimethylamine     |  |
| PF-36B      | 92.27461 | 86306    | < 660.     |             | UG/KG      | 16/92          |          | N-Nitrosodiphenylamine     |  |

|             |          |          | ***        | ************************************** |       |            |         |                        |  |  |
|-------------|----------|----------|------------|----------------------------------------|-------|------------|---------|------------------------|--|--|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL | ANALYTICAL                             |       | COMPLETION |         | Compound               |  |  |
| NUMBER      | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY                            | UNITS | DATE       | COMMENT | NAME                   |  |  |
| PF-368-S-60 | 92.27461 | 87865    | < 660.     |                                        | UG/KG | 11/16/92   |         | Pentachlorophenol      |  |  |
| PF-36B-S-60 | 92.27461 | 85018    | < 660.     |                                        | UG/KG | 11/16/92   |         | Phenanthrene           |  |  |
| PF-368-S-60 | 92.27461 | 108952   | < 660.     |                                        | UG/KG | 11/16/92   |         | Phenol                 |  |  |
| PF-368-S-60 | 92.27461 | 129000   | < 660.     |                                        | UG/KG | 11/16/92   |         | Pyrene                 |  |  |
| PF-368-S-60 | 92.27461 | 120821   | < 660.     |                                        | UG/KG | 11/16/92   |         | 1,2,4-Trichlorobenzene |  |  |
| PF-36B-S-60 | 92.27461 | 95954    | < 660.     |                                        | UG/KG | 11/16/92   |         | 2,4,5-Trichlorophenol  |  |  |
| PF-36B-S-60 | 92.27461 | 88062    | < 660.     |                                        | UG/KG | 11/16/92   |         | 2,4,6-Trichlorophenol  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.27461

none

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|                    |             |             | ***                | *****           | ** EM-1 | 9 ANALYTICAL REPO | )RT ****     | ****            |            |                 |         |
|--------------------|-------------|-------------|--------------------|-----------------|---------|-------------------|--------------|-----------------|------------|-----------------|---------|
|                    |             |             | EP/                | A SEMIVOLATILES | Pre     | pared by: LAK     | 0            | n 16-Nov-1992   |            |                 |         |
| REQUEST NUM        | BER: 13503  | MATRI       | (: SS ANALY        | ST: ANTHONY LO  | MBARDO  | PI                | ROGRAM CODE: | M106 NOTEBOO    | DK: R7336  | PAGE: 14        | 5       |
| OWNER: Phi         | lip R. Fres | quez        | GROUP: EM-8        | MAIL-STOP:      | K490 P  | HONE: 7-0815      | TECHNIQUE    | GCEC ANALY      | TICAL PRO  | CEDURE: EPA SW- | 846 3RD |
| <u>Customer Sa</u> | mple Result | s, Sample # | <u>92.27462</u> De | ate Collected:  | 9/01/92 | Date Received:    | 9/02/92      | Date Extracted: | 9/14/92    | Date Analyzed:  | 9/24/92 |
| CUSTOMER           | SAMPLE      |             | ANALYTICAL         | ANALYTICAL      |         | COMPLETION        |              | COMPOUND        |            |                 |         |
| NUMBER             | NUMBER      | ANALYSIS    | RESULT             | UNCERTAINTY     | UNITS   | DATE              | COMMENT      | NAME            |            |                 |         |
|                    |             | 00000       | - 330              |                 |         | 11/16/02          |              | Aconsphthone    |            |                 |         |
| PF-36B-S-10        | 0 92.27462  | 83329       | < 330.             |                 | UG/KG   | 11/16/92          |              | Acenaphthene    |            |                 |         |
| PF-368-S-10        | 0 92.27462  | 208968      | < 330.             |                 |         | 11/10/92          |              | Aniline         |            |                 |         |
| PF-368-S-10        | 0 92.27462  | 02033       | < 330.             |                 |         | 11/16/92          |              | Anthracene      |            |                 |         |
| PF-368-5-10        | 0 92.2/402  | 120127      | < 330.             |                 |         | 11/16/92          |              | Azobenzene      |            |                 |         |
| PF-368-5-10        | 0 92.2/402  | 103333      | < 330.             |                 |         | 11/16/92          |              | m-Benzidine     |            |                 |         |
| PF-368-5-10        | 0 02 27462  | 92073       | < 330.             |                 |         | 11/16/92          |              | Renzo[a]anth    | racene     |                 |         |
| PF-368-5-10        | 0 92.27402  | 50333       | < 330              |                 | UG /KG  | 11/16/92          |              | Benzo[a]nvre    | ne         |                 |         |
| PF-30B-5-10        | 0 92.27402  | 205992      | < 330              |                 | UG/KG   | 11/16/92          |              | Benzo[b]fiuo    | ranthene   |                 |         |
| PF-368-S-10        | 0 92.27462  | 191242      | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzo[a,h,i]    | pervlene   |                 |         |
| PF-368-5-10        | 0 02 27462  | 207089      | < 330              |                 | UG/KG   | 11/16/92          |              | Benzo[k]fluo    | ranthene   |                 |         |
| PE-368-5-10        | 0 92 27462  | 65850       | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzoic acid    |            |                 |         |
| PF-368-5-10        | 0 92.27462  | 100516      | < 330.             |                 | UG/KG   | 11/16/92          |              | Benzyl alcoh    | ol         |                 |         |
| PF-368-5-10        | 0 92.27462  | 111911      | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-chloro    | ethoxy)met | hane            |         |
| PF-368-S-10        | 0 92.27462  | 111444      | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-chloro    | ethyl)ethe | r               |         |
| PF-36B-S-10        | 0 92.27462  | 108601      | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-chloro    | isopropyl) | ether           |         |
| PF-368-S-10        | 0 92.27462  | 117817      | < 330.             |                 | UG/KG   | 11/16/92          |              | Bis(2-ethylh    | exyl)phtha | late            |         |
| PF-36B-S-10        | 0 92.27462  | 101553      | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Bromopheny    | lphenyl et | her             |         |
| PF-368-S-10        | 0 92.27462  | 85687       | < 330.             |                 | UG/KG   | 11/16/92          |              | Butyl benzyl    | phthalate  | 1               |         |
| PF-368-S-10        | 0 92.27462  | 59507       | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Chioro-3-m    | ethylpheno | ol              |         |
| PF-368-S-10        | 0 92.27462  | 106478      | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Chloroanil    | ine        |                 |         |
| PF-36B-S-10        | 0 92.27462  | 91587       | < 330.             |                 | UG/KG   | 11/16/92          |              | 2-Chloronaph    | thalene    |                 |         |
| PF-36B-S-10        | 0 92.27462  | 95578       | < 330.             |                 | UG/KG   | 11/16/92          |              | o-Chlorophen    | ol         |                 |         |
| PF-368-S-10        | 0 92.27462  | 7005723     | < 330.             |                 | UG/KG   | 11/16/92          |              | 4-Chlorophen    | ylphenyl e | ther            |         |
| PF-36B-S-10        | 0 92.27462  | 218019      | < 330.             |                 | UG/KG   | 11/16/92          |              | Chrysene        |            |                 |         |
| PF-36B             | 0 92.27462  | 84742       | < 330.             |                 | UG/KG   | 16/92             |              | Di-n-butyl p    | hthalate   |                 |         |

PF-36B-S-100 92.27462

86306

< 330.

provide a second

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|             |            |          | ***        | *****       | *** EM- | -9 ANALYTICAL R | EPORT ** | *********                  |  |
|-------------|------------|----------|------------|-------------|---------|-----------------|----------|----------------------------|--|
| CUSTOMER    | SAMPLE     |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION      |          | COMPOUND                   |  |
| NUMBER      | NUMBER     | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE            | COMMENT  | NAME                       |  |
| PF-36B-S-10 | 0 92.27462 | 117840   | < 330.     |             | UG/KG   | 11/16/92        |          | Di-n-octyl phthalate       |  |
| PF-36B-S-10 | 0 92.27462 | 53703    | < 330.     |             | UG/KG   | 11/16/92        |          | Dibenzo[a,h]anthracene     |  |
| PF-368-S-10 | 0 92.27462 | 132649   | < 330.     |             | UG/KG   | 11/16/92        |          | Dibenzofuran               |  |
| PF-368-S-10 | 0 92.27462 | 95501    | < 330.     |             | UG/KG   | 11/16/92        |          | o-Dichlorobenzene (1,2)    |  |
| PF-36B-S-10 | 0 92.27462 | 541731   | < 330.     |             | UG/KG   | 11/16/92        |          | m-Dichlorobenzene (1,3)    |  |
| PF-36B-S-10 | 0 92.27462 | 106467   | < 330.     |             | UG/KG   | 11/16/92        |          | p-Dichlorobenzene (1,4)    |  |
| PF-36B-S-10 | 0 92.27462 | 91941    | < 330.     |             | UG/KG   | 11/16/92        |          | 3,3'-Dichlorobenzidine     |  |
| PF-36B-S-10 | 0 92.27462 | 120832   | < 330.     |             | UG/KG   | 11/16/92        |          | 2,4-Dichlorophenol         |  |
| PF-36B-S-10 | 0 92.27462 | 84662    | < 330.     |             | UG/KG   | 11/16/92        |          | Diethyl phthalate          |  |
| PF-36B-S-10 | 0 92.27462 | 131113   | < 330.     |             | UG/KG   | 11/16/92        |          | Dimethyl phthalate         |  |
| PF-36B-S-10 | 0 92.27462 | 105679   | < 330.     |             | UG/KG   | 11/16/92        |          | 2,4-Dimethylphenol         |  |
| PF-368-S-10 | 0 92.27462 | 51285    | < 330.     |             | UG/KG   | 11/16/92        |          | 2,4-Dinitrophenol          |  |
| PF-36B-S-10 | 0 92.27462 | 121142   | < 330.     |             | UG/KG   | 11/16/92        |          | 2,4-Dinitrotoluene         |  |
| PF-368-S-10 | 0 92.27462 | 606202   | < 330.     |             | UG/KG   | 11/16/92        |          | 2,6-Dinitrotoluene         |  |
| PF-36B-S-10 | 0 92.27462 | 206440   | < 330.     |             | UG/KG   | 11/16/92        |          | Fluoranthene               |  |
| PF-36B-S-10 | 0 92.27462 | 86737    | < 330.     |             | UG/KG   | 11/16/92        |          | Fluorene                   |  |
| PF-36B-S-10 | 0 92.27462 | 118741   | < 330.     |             | UG/KG   | 11/16/92        |          | Hexachlorobenzene          |  |
| PF-36B-S-10 | 0 92.27462 | 87683    | < 330.     |             | UG/KG   | 11/16/92        |          | Hexachlorobutadiene        |  |
| PF-36B-S-10 | 0 92.27462 | 77474    | < 330.     |             | UG/KG   | 11/16/92        |          | Hexachlorocyclopentadiene  |  |
| PF-36B-S-10 | 0 92.27462 | 67721    | < 330.     |             | UG/KG   | 11/16/92        |          | Hexachloroethane           |  |
| PF-36B-S-10 | 0 92.27462 | 193395   | < 330.     |             | UG/KG   | 11/16/92        |          | Indeno[1,2,3-cd]pyrene     |  |
| PF-368-S-10 | 0 92.27462 | 78591    | < 330.     |             | UG/KG   | 11/16/92        |          | Isophorone                 |  |
| PF-36B-S-10 | 0 92.27462 | 534521   | < 330.     |             | UG/KG   | 11/16/92        |          | 2-Methyl-4,6-dinitrophenol |  |
| PF-36B-S-10 | 0 92.27462 | 91576    | < 330.     |             | UG/KG   | 11/16/92        |          | 2-Methylnaphthalene        |  |
| PF-36B-S-10 | 0 92.27462 | 95487    | < 330.     |             | UG/KG   | 11/16/92        |          | 2-Methylphenol             |  |
| PF-36B-S-10 | 0 92.27462 | 106445   | < 330.     |             | UG/KG   | 11/16/92        |          | 4-Methylphenol             |  |
| PF-36B-S-10 | 0 92.27462 | 91203    | < 330.     |             | UG/KG   | 11/16/92        |          | Naphthalene                |  |
| PF-36B-S-10 | 0 92.27462 | 88744    | < 330.     |             | UG/KG   | 11/16/92        |          | 2-Nitroaniline             |  |
| PF-36B-S-10 | 0 92.27462 | 99092    | < 330.     |             | UG/KG   | 11/16/92        |          | 3-Nitroaniline             |  |
| PF-36B-S-10 | 0 92.27462 | 100016   | < 330.     |             | UG/KG   | 11/16/92        |          | 4-Nitroaniline             |  |
| PF-36B-S-10 | 0 92.27462 | 98953    | < 330.     |             | UG/KG   | 11/16/92        |          | Nitrobenzene               |  |
| PF-36B-S-10 | 0 92.27462 | 88755    | < 330.     |             | UG/KG   | 11/16/92        |          | 2-Nitrophenol              |  |
| PF-36B-S-10 | 0 92.27462 | 100027   | < 330.     |             | UG/KG   | 11/16/92        |          | 4-Nitrophenol              |  |
| PF-368-S-10 | 0 92.27462 | 621647   | < 330.     |             | UG/KG   | 11/16/92        |          | N-Nitrosodi-n-propylamine  |  |
| PF-36B-S-10 | 0 92.27462 | 62759    | < 330.     |             | UG/KG   | 11/16/92        |          | N-Nitrosodimethylamine     |  |

UG/KG

11/16/92

N-Nitrosodiphenylamine

|              |          |          | ***        | *****       | *** E | M-9 ANALYTICAL | REPORT  | ****                   |   |
|--------------|----------|----------|------------|-------------|-------|----------------|---------|------------------------|---|
| CUSTOMER     | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION     |         | COMPOUND               | · |
| NUMBER       | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE           | COMMENT | T NAME                 |   |
| PF-36B-S-100 | 92.27462 | 87865    | < 330.     |             | UG/KG | 11/16/92       |         | Pentachlorophenol      |   |
| PF-36B-S-100 | 92.27462 | 85018    | < 330.     |             | UG/KG | 11/16/92       |         | Phenanthrene           |   |
| PF-36B-S-100 | 92.27462 | 108952   | < 330.     |             | UG/KG | 11/16/92       |         | Phenol                 |   |
| PF-368-S-100 | 92.27462 | 129000   | < 330.     |             | UG/KG | 11/16/92       |         | Pyrene                 |   |
| PF-36B-S-100 | 92.27462 | 120821   | < 330.     |             | UG/KG | 11/16/92       |         | 1,2,4-Trichlorobenzene |   |
| PF-368-S-100 | 92.27462 | 95954    | < 330.     |             | UG/KG | 11/16/92       |         | 2,4,5-Trichlorophenol  |   |
| PF-36B-S-100 | 92.27462 | 88062    | < 330.     |             | UG/KG | 11/16/92       |         | 2,4,6-Trichlorophenol  |   |

Tentatively Identified Compounds in Customer Sample # 92.27462

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|                     |             |              | ***               | ************     | ** EM-  | -9 ANALYTICAL REP | DRT ************                                        |  |
|---------------------|-------------|--------------|-------------------|------------------|---------|-------------------|---------------------------------------------------------|--|
|                     |             |              | E                 | PA SEMIVOLATILES | 5 Pre   | epared by: LAK    | on 16-Nov-1992                                          |  |
| REQUEST NUMB        | BER: 13503  | B MATR       | IX: SS ANAL       | YST: ANTHONY LO  | MBARDO  | P                 | ROGRAM CODE: M106 NOTEBOOK: R7336 PAGE: 145             |  |
| OWNER: Phil         | lip R. Fres | squez        | GROUP: EM-8       | MAIL-STOP:       | K490 P  | PHONE: 7-0815     | TECHNIQUE: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |  |
| <u>Customer Sam</u> | ple Result  | ts, Sample : | <u># 92.27463</u> | Date Collected:  | 9/01/92 | Date Received:    | 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |  |
| CUSTOMER            | SAMPLE      |              | ANAL YTTCAL       | ANALYTTCAL       |         | COMPLETION        | COMPOUND                                                |  |
| NUMBER              | NUMBER      | ANALYSIS     | RESULT            | UNCERTAINTY      | UNITS   | DATE              | COMPOND                                                 |  |
|                     |             |              |                   |                  |         |                   |                                                         |  |
| PF-36B-S-150        | 92.27463    | 83329        | < 330.            |                  | UG/KG   | 11/16/92          | Acenaphthene                                            |  |
| PF-36B-S-150        | 92.27463    | 208968       | < 330.            |                  | UG/KG   | 11/16/92          | Acenaphthylene                                          |  |
| PF-36B-S-150        | 92.27463    | 62533        | < 330.            |                  | UG/KG   | 11/16/92          | Aniline                                                 |  |
| PF-36B-S-150        | 92.27463    | 120127       | < 330.            |                  | UG/KG   | 11/16/92          | Anthracene                                              |  |
| PF-36B-S-150        | 92.27463    | 103333       | < 330.            |                  | UG/KG   | 11/16/92          | Azobenzene                                              |  |
| PF-36B-S-150        | 92.27463    | 92875        | < 330.            |                  | UG/KG   | 11/16/92          | m-Benzidine                                             |  |
| PF-36B-S-150        | 92.27463    | 56553        | < 330.            |                  | UG/KG   | 11/16/92          | Benzo[a]anthracene                                      |  |
| PF-368-S-150        | 92.27463    | 50328        | < 330.            |                  | UG/KG   | 11/16/92          | Benzo[a]pyrene                                          |  |
| PF-36B-S-150        | 92.27463    | 205992       | < 330.            |                  | UG/KG   | 11/16/92          | Benzo[b]fluoranthene                                    |  |
| PF-36B-S-150        | 92.27463    | 191242       | < 330.            |                  | UG/KG   | 11/16/92          | Benzo[g,h,i]perylene                                    |  |
| PF-36B-S-150        | 92.27463    | 207089       | < 330.            |                  | UG/KG   | 11/16/92          | Benzo[k]fluoranthene                                    |  |
| PF-36B-S-150        | 92.27463    | 65850        | < 330.            |                  | UG/KG   | 11/16/92          | Benzoic acid                                            |  |
| PF-36B-S-150        | 92.27463    | 100516       | < 330.            |                  | UG/KG   | 11/16/92          | Benzyl alcohol                                          |  |
| PF-36B-S-150        | 92.27463    | 111911       | < 330.            |                  | UG/KG   | 11/16/92          | Bis(2-chloroethoxy)methane                              |  |
| PF-36B-S-150        | 92.27463    | 111444       | < 330.            |                  | UG/KG   | 11/16/92          | Bis(2-chloroethyl)ether                                 |  |
| PF-368-S-150        | 92.27463    | 108601       | < 330.            |                  | UG/KG   | 11/16/92          | Bis(2-chloroisopropyl)ether                             |  |
| PF-36B-S-150        | 92.27463    | 117817       | < 330.            |                  | UG/KG   | 11/16/92          | Bis(2-ethylhexyl)phthalate                              |  |
| PF-36B-S-150        | 92.27463    | 101553       | < 330.            |                  | UG/KG   | 11/16/92          | 4-Bromophenylphenyl ether                               |  |
| PF-36B-S-150        | 92.27463    | 85687        | < 330.            |                  | UG/KG   | 11/16/92          | Butyl benzyl phthalate                                  |  |
| PF-36B-S-150        | 92.27463    | 59507        | < 330.            |                  | UG/KG   | 11/16/92          | 4-Chloro-3-methylphenol                                 |  |
| PF-36B-S-150        | 92.27463    | 106478       | < 330.            |                  | UG/KG   | 11/16/92          | 4-Chloroaniline                                         |  |
| PF-36B-S-150        | 92.27463    | 91587        | < 330.            |                  | UG/KG   | 11/16/92          | 2-Chloronaphthalene                                     |  |
| PF-36B-S-150        | 92.27463    | 95578        | < 330.            |                  | UG/KG   | 11/16/92          | o-Chlorophenol                                          |  |
| PF-36B-S-150        | 92.27463    | 7005723      | < 330.            |                  | UG/KG   | 11/16/92          | 4-Chlorophenylphenyl ether                              |  |
| PF-36B-S-150        | 92.27463    | 218019       | < 330.            |                  | UG/KG   | 11/16/92          | Chrysene                                                |  |
| PF-36B-S-150        | 92.27463    | 84742        | < 330.            |                  | UG/KG   | 11/16/92          | Di-n-butyl phthalate                                    |  |

|             |             |          | ***        | ****        | *** E <b>M</b> - | 9 ANALYTICAL RI | EPORT *** | *********                  |  |
|-------------|-------------|----------|------------|-------------|------------------|-----------------|-----------|----------------------------|--|
| CUSTOMER    | SAMPLE      |          | ANALYTICAL | ANALYTICAL  |                  | COMPLETION      |           | COMPOUND                   |  |
| NUMBER      | NUMBER      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS            | DATE            | COMMENT   | NAME                       |  |
| DE-368-9-15 | 0 92 27463  | 117840   | < 330      |             | UG/KG            | 11/16/92        |           | Di-n-octvl phthalate       |  |
| PF-368-5-15 | 0 92 27463  | 53703    | < 330      |             | UG/KG            | 11/16/92        |           | Dibenzo[a h]anthracene     |  |
| PF-368-S-15 | 0 92.27463  | 132649   | < 330.     |             | UG/KG            | 11/16/92        |           | Dibenzofuran               |  |
| PE-368-S-15 | 0 92 27463  | 95501    | < 330.     |             | UG/KG            | 11/16/92        |           | o-Dichlorobenzene (1.2)    |  |
| PF-368-S-15 | 0 92 27463  | 541731   | < 330.     |             | UG/KG            | 11/16/92        |           | m-Dichlorobenzene (1.3)    |  |
| PE-368-S-15 | 0 92.27463  | 106467   | < 330.     |             | UG/KG            | 11/16/92        |           | p-Dichlorobenzene (1.4)    |  |
| PF-368-5-15 | 0 92 27463  | 91941    | < 330.     |             | UG/KG            | 11/16/92        |           | 3.3'-Dichlorobenzidine     |  |
| PE-368-5-15 | 0 92 27463  | 120832   | < 330      |             | UG/KG            | 11/16/92        |           | 2.4+Dichlorophenol         |  |
| PE-368-5-15 | 0 92.27463  | 84662    | < 330.     |             | UG/KG            | 11/16/92        |           | Diethyl phthalate          |  |
| PE-368-5-15 | 0 92 27463  | 131113   | < 330      |             | UG/KG            | 11/16/92        |           | Dimethyl phthalate         |  |
| PE-368-9-15 | 0 92 27463  | 105679   | < 330.     |             | UG/KG            | 11/16/92        |           | 2.4-Dimethylphenol         |  |
| PE-368-S-15 | 0 92 27463  | 51285    | < 330.     |             | UG/KG            | 11/16/92        |           | 2.4-Dinitrophenol          |  |
| PE-368-5-15 | 0 92 27463  | 121142   | < 330.     |             | UG/KG            | 11/16/92        |           | 2.4-Dinitrotoluene         |  |
| PF-368-5-15 | 0 92 27463  | 606202   | < 330.     |             | UG/KG            | 11/16/92        |           | 2.6-Dinitrotoluene         |  |
| PF-368-5-15 | 0 92.27463  | 206440   | < 330.     |             | UG/KG            | 11/16/92        |           | Fluoranthene               |  |
| PF-368-5-15 | 0 92.27463  | 86737    | < 330.     |             | UG/KG            | 11/16/92        |           | Fluorene                   |  |
| PF-368-S-15 | 0 92.27463  | 118741   | < 330.     |             | UG/KG            | 11/16/92        |           | Hexach lorobenzene         |  |
| PE-368-5-15 | 0 92 27463  | 87683    | < 330.     |             | UG/KG            | 11/16/92        |           | Hexachlorobutadiene        |  |
| PF-368-5-15 | 50 92 27463 | 77474    | < 330.     |             | UG/KG            | 11/16/92        |           | Hexachlorocyclopentadiene  |  |
| PF-368-S-15 | 50 92 27463 | 67721    | < 330.     |             | UG /KG           | 11/16/92        |           | Hexachloroethane           |  |
| PE-368-S-15 | 50 92.27463 | 193395   | < 330.     |             | UG/KG            | 11/16/92        |           | Indeno[1,2,3-cd]pyrene     |  |
| PE-368-S-15 | 50 92.27463 | 78591    | < 330.     |             | UG/KG            | 11/16/92        |           | Isophorone                 |  |
| PF-368-S-15 | 50 92.27463 | 534521   | < 330.     |             | UG/KG            | 11/16/92        |           | 2-Methyl-4,6-dinitrophenol |  |
| PE-368-S-15 | 50 92.27463 | 91576    | < 330.     |             | UG/KG            | 11/16/92        |           | 2-Methylnaphthalene        |  |
| PE-368-5-15 | 50 92.27463 | 95487    | < 330.     |             | ,<br>UG/KG       | 11/16/92        |           | 2-Methylphenol             |  |
| PF-368-5-15 | 50 92.27463 | 106445   | < 330.     |             | UG/KG            | 11/16/92        |           | 4-Methylphenol             |  |
| PE-368-5-15 | 50 92.27463 | 91203    | < 330.     |             | UG/KG            | 11/16/92        |           | Naphthalene                |  |
| PF-368-5-15 | 50 92.27463 | 88744    | < 330.     |             | UG/KG            | 11/16/92        |           | 2-Nitroaniline             |  |
| PE-36B-S-15 | 50 92.27463 | 99092    | < 330.     |             | UG/KG            | 11/16/92        |           | 3-Nitroaniline             |  |
| PE-368-S-15 | 50 92.27463 | 100016   | < 330.     |             | UG/KG            | 11/16/92        |           | 4-Nitroaniline             |  |
| PE-368-S-15 | 50 92.27463 | 98953    | < 330.     |             | UG/KG            | 11/16/92        |           | Nitrobenzene               |  |
| PF-368-S-1  | 50 92.27463 | 88755    | < 330.     |             | UG/KG            | 11/16/92        |           | 2-Nitrophenol              |  |
| PF-368-5-1  | 50 92.27463 | 100027   | < 330.     |             | UG/KG            | 11/16/92        |           | 4-Nitrophenol              |  |
| PF-368-5-1  | 50 92,27463 | 621647   | < 330.     |             | UG/KG            | 11/16/92        |           | N-Nitrosodi-n-propylamine  |  |
| PF-368-9-1  | 50 92 27463 | 62759    | < 330.     |             | UG/KG            | 11/16/92        |           | N-Nitrosodimethylamine     |  |
| PF-368-     | ) 92.27463  | 86306    | < 330.     |             | UG/KG            | 16/92           |           | N-Nitrosodiphenylamine     |  |

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|              |          |           | ***        | *****          | *** EM- | 9 ANALYTICAL RI | PORT *** | ****                   |
|--------------|----------|-----------|------------|----------------|---------|-----------------|----------|------------------------|
|              | SAMPLE   | ANAL VSTS | ANALYTICAL | ANALYTICAL     | UNITS   |                 | COMMENT  |                        |
| NUMBER       | NONDER   | 10121313  | RESOLT     | UNCERTITIENT I | 01113   | DATE            | COMPENSI |                        |
| PF-36B-S-150 | 92.27463 | 87865     | < 330.     |                | UG/KG   | 11/16/92        |          | Pentachlorophenol      |
| PF-36B-S-150 | 92.27463 | 85018     | < 330.     |                | UG/KG   | 11/16/92        |          | Phenanthrene           |
| PF-368-S-150 | 92.27463 | 108952    | < 330.     |                | UG/KG   | 11/16/92        |          | Pheno l                |
| PF-368-S-150 | 92.27463 | 129000    | < 330.     |                | UG/KG   | 11/16/92        |          | Pyrene                 |
| PF-36B-S-150 | 92.27463 | 120821    | < 330.     |                | UG/KG   | 11/16/92        |          | 1,2,4-Trichlorobenzene |
| PF-36B-S-150 | 92.27463 | 95954     | < 330.     |                | UG/KG   | 11/16/92        |          | 2,4,5-Trichlorophenol  |
| PF-36B-S-150 | 92.27463 | 88062     | < 330.     |                | UG/KG   | 11/16/92        |          | 2,4,6-Trichlorophenol  |

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Tentatively Identified Compounds in Customer Sample # 92.27463

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|                     |             |               | ***        | *****            | ** EM-: | 9 ANALYTICAL REP | ORT ****     | ******                                          |
|---------------------|-------------|---------------|------------|------------------|---------|------------------|--------------|-------------------------------------------------|
|                     |             |               | EF         | PA SEMIVOLATILES | Pre     | pared by: LAK    | c            | on 16-Nov-1992                                  |
| REQUEST NUME        | BER: 13503  | MATRIX:       | SS ANALY   | (ST: ANTHONY LO  | MBARDO  | P                | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145                  |
| OWNER: Phil         | lip R. Fres | quez G        | ROUP: EM-8 | MAIL-STOP:       | K490 P  | HONE: 7-0815     | TECHNIQUE    | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD    |
| <u>Customer Sam</u> | nple Result | s, Sample # 9 | 2.27464    | Date Collected:  | 9/01/92 | Date Received:   | 9/02/92      | Date Extracted: 9/14/92 Date Analyzed: 10/07/92 |
| CUSTOMER            | SAMPLE      |               | ANALYTICAL | ANALYTICAL       |         | COMPLETION       |              | COMPOUND                                        |
| NUMBER              | NUMBER      | ANALYSIS      | RESULT     | UNCERTAINTY      | UNITS   | DATE             | COMMENT      | NAME                                            |
|                     |             |               |            |                  |         |                  |              |                                                 |
| PF-36B-SED          | 92.27464    | 83329         | < 330.     |                  | UG/KG   | 11/16/92         |              | Acenaphthene                                    |
| PF-36B-SED          | 92.27464    | 208968        | < 330.     |                  | UG/KG   | 11/16/92         |              | Acenaphthylene                                  |
| PF-36B-SED          | 92.27464    | 62533         | < 330.     |                  | UG/KG   | 11/16/92         |              | Aniline                                         |
| PF-36B-SED          | 92.27464    | 120127        | < 330.     |                  | UG/KG   | 11/16/92         |              | Anthracene                                      |
| PF-36B-SED          | 92.27464    | 103333        | < 330.     |                  | UG/KG   | 11/16/92         |              | Azobenzene                                      |
| PF-36B-SED          | 92.27464    | <b>9</b> 2875 | < 330.     |                  | UG/KG   | 11/16/92         |              | m-Benzidine                                     |
| PF-36B-SED          | 92.27464    | 56553         | < 330.     |                  | UG/KG   | 11/16/92         |              | Benzo[a]anthracene                              |
| PF-36B-SED          | 92.27464    | 50328         | < 330.     |                  | UG/KG   | 11/16/92         |              | Benzo[a]pyrene                                  |
| PF-36B-SED          | 92.27464    | 205992        | < 330.     |                  | UG/KG   | 11/16/92         |              | Benzo[b]fluoranthene                            |
| PF-36B-SED          | 92.27464    | 191242        | < 330.     |                  | UG/KG   | 11/16/92         |              | Benzo[g,h,i]perylene                            |
| PF-36B-SED          | 92.27464    | 207089        | < 330.     |                  | UG/KG   | 11/16/92         |              | Benzo[k]fluoranthene                            |
| PF-368-SED          | 92.27464    | 65850         | < 330.     |                  | UG/KG   | 11/16/92         |              | Benzoic acid                                    |
| PF-36B-SED          | 92.27464    | 100516        | < 330.     |                  | UG/KG   | 11/16/92         |              | Benzyl alcohol                                  |
| PF-36B-SED          | 92.27464    | 111911        | < 330.     |                  | UG/KG   | 11/16/92         |              | Bis(2-chloroethoxy)methane                      |
| PF-36B-SED          | 92.27464    | 111444        | < 330.     |                  | UG/KG   | 11/16/92         |              | Bis(2-chloroethyl)ether                         |
| PF-36B-SED          | 92.27464    | 108601        | < 330.     |                  | UG/KG   | 11/16/92         |              | Bis (2-chloroisopropyl) ether                   |
| PF-36B-SED          | 92.27464    | 117817        | < 330.     |                  | UG/KG   | 11/16/92         |              | Bis (2-ethylhexyl)phthalate                     |
| PF-36B-SED          | 92.27464    | 101553        | < 330.     |                  | UG/KG   | 11/16/92         |              | 4-Bromophenylphenyl ether                       |
| PF-36B-SED          | 92.27464    | 85687         | < 330.     |                  | UG/KG   | 11/16/92         |              | Butyl benzyl phthalate                          |
| PF-36B-SED          | 92.27464    | 59507         | < 330.     |                  | UG/KG   | 11/16/92         |              | 4-Chloro-3-methylphenol                         |
| PF-36B-SED          | 92.27464    | 106478        | < 330.     |                  | UG/KG   | 11/16/92         |              | 4-Chloroaniline                                 |
| PF-36B-SED          | 92.27464    | 91587         | < 330.     |                  | UG/KG   | 11/16/92         |              | 2-Chloronaphthalene                             |
| PF-36B-SED          | 92.27464    | 95578         | < 330.     |                  | UG/KG   | 11/16/92         |              | o-Chlorophenol                                  |
| PF-36B-SED          | 92.27464    | 7005723       | < 330.     |                  | UG/KG   | 11/16/92         |              | 4-Chlorophenylphenyl ether                      |
| PF-36B-SED          | 92.27464    | 218019        | < 330.     |                  | UG/KG   | 11/16/92         |              | Chrysene                                        |
| PF-368-             | 92.27464    | 84742         | < 330.     |                  | UG/KG   | 6/92             |              | Di-n-butyl phthalate                            |

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| CUSTOMER   SAMPLE   ANALYTICAL   ANALYTICAL   COMPLETION   COMPOUND     NUMBER   NUMBER   ANALYSIS   RESULT   UNCERTAINTY   UNITS   DATE   COMPOUND     PF-366-SED   92.27464   13740   < 330.   UG/KG   11/16/92   Dibenzo[a,h]anthracene     PF-368-SED   92.27464   132649   < 330.   UG/KG   11/16/92   Dibenzo[a,h]anthracene     PF-368-SED   92.27464   95501   < 330.   UG/KG   11/16/92   Dibenzofuran     PF-368-SED   92.27464   106467   < 330.   UG/KG   11/16/92   o-Dichlorobenzene (1,2)     PF-368-SED   92.27464   106467   < 330.   UG/KG   11/16/92   p-Dichlorobenzene (1,3)     PF-368-SED   92.27464   106467   < 330.   UG/KG   11/16/92   2,4-0tchlorobenzene (1,4)     PF-368-SED   92.27464   110813   < 330.   UG/KG   11/16/92   2,4-0tchlorobenzene (1,4)     PF-368-SED   92.27464   113113   < 330.   UG/KG   11/16/92   2,4-0tichl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |          |          | ***        | *****       | *** EM-    | 9 ANALYTICAL R | EPORT ** | *******                    |  |
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| NUMBER   NUMER   ANALYSIS   RESULT   UNCERTAINTY   UNITS   DATE   COMMENT   NAME     PF-36B-SED   92.27464   53703   5330.   UG/KG   11/16/92   Dibenzo[a,h]anthracene     PF-36B-SED   92.27464   53703   5330.   UG/KG   11/16/92   Dibenzo[a,h]anthracene     PF-36B-SED   92.27464   132649   <330.   UG/KG   11/16/92   o-Dichlorobenzene (1,2)     PF-36B-SED   92.27464   106470   <330.   UG/KG   11/16/92   o-Dichlorobenzene (1,3)     PF-36B-SED   92.27464   106467   <330.   UG/KG   11/16/92   -Pichchorobenzene (1,4)     PF-36B-SED   92.27464   106467   <330.   UG/KG   11/16/92   -4/-Dichlorobenzene (1,4)     PF-36B-SED   92.27464   1064579   <330.   UG/KG   11/16/92   -4/-Dichlorobenzene (1,4)     PF-36B-SED   92.27464   136579   <330.   UG/KG   11/16/92   -4/-Dichlorobenzene (1,4)     PF-36B-SED   92.27464   136579   <330.   UG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CUSTOMER   | SAMPLE   | · · ·    | ANALYTICAL | ANALYTICAL  |            | COMPLETION     | <u></u>  | COMPOUND                   |  |
| PF-36B-SED 92.27464 53703 < 330. UG/K6 11/16/92 Dien-octyl phthalate   PF-36B-SED 92.27464 132649 < 330. UG/K6 11/16/92 Dibenzo[a,h]anthracene   PF-36B-SED 92.27464 132649 < 330. UG/K6 11/16/92 Dibenzofuran   PF-36B-SED 92.27464 95501 < 330. UG/K6 11/16/92 orDichlorobenzene (1,2)   PF-36B-SED 92.27464 106467 < 330. UG/K6 11/16/92 p-Dichlorobenzene (1,4)   PF-36B-SED 92.27464 106467 < 330. UG/K6 11/16/92 3.3'-Dichlorobenzene (1,4)   PF-36B-SED 92.27464 108457 < 330. UG/K6 11/16/92 3.3'-Dichlorobenzene (1,4)   PF-36B-SED 92.27464 108452 < 330. UG/K6 11/16/92 3.3'-Dichlorobenzene (1,4)   PF-36B-SED 92.27464 13113 < 330. UG/K6 11/16/92 2,4-Dichlorobenzene (1,4)   PF-36B-SED 92.27464 13113 < 330. UG/K6 11/16/92 2,4-Dichlorobenzene (1,4)   PF-36B-SED 92.27464 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NUMBER     | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE           | COMMENT  | NAME                       |  |
| Pr-368-SED 92.27464 53703 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-36B-SED | 92 27464 | 117840   | < 330.     |             | UG/KG      | 11/16/92       |          | Di-m-octvl obthalate       |  |
| PF-36B-SED 92.27464 13264 330. UG/KG 11/16/92 Dibenzofuran   PF-36B-SED 92.27464 95501 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PE-368-SED | 92.27464 | 53703    | < 330.     |             | UG/KG      | 11/16/92       |          | Dibenzo[a b]anthracene     |  |
| PF-36B-SED 92.27464 9501 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PE-368-SED | 92.27464 | 132649   | < 330.     |             | UG/KG      | 11/16/92       |          | Dibenzofuran               |  |
| PF-368-SED 92.27464 541731 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-368-SED | 92.27464 | 95501    | < 330.     |             | UG/KG      | 11/16/92       |          | o-Dichlorobenzene (1,2)    |  |
| PF-368-SED 92.27464 106467 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-368-SED | 92.27464 | 541731   | < 330.     |             | UG/KG      | 11/16/92       |          | m-Dichlorobenzene (1,3)    |  |
| PF-36B-SED 92.27464 91941 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-368-SED | 92.27464 | 106467   | < 330.     |             | UG/KG      | 11/16/92       |          | p-Dichlorobenzene (1,4)    |  |
| PF-36B-SED 92.27464 120832 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PF-368-SED | 92.27464 | 91941    | < 330.     |             | UG/KG      | 11/16/92       |          | 3.3'-Dichlorobenzidine     |  |
| Nr. Bole GLD Bill for the formation of the fo | PE-368-SED | 92.27464 | 120832   | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dichlorophenol         |  |
| PF-36B-SED 92.27464 131113 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-368-SED | 92.27464 | 84662    | < 330.     |             | UG/KG      | 11/16/92       |          | Diethyl phthalate          |  |
| PF-36B-SED 92.27464 105679 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-368-SED | 92.27464 | 131113   | < 330.     |             | UG/KG      | 11/16/92       |          | Dimethyl phthalate         |  |
| PF-36B-SED 92.27464 51285 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-368-SED | 92.27464 | 105679   | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dimethylphenol         |  |
| PF-36B-SED 92.27464 121142 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-368-SED | 92.27464 | 51285    | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dinitrophenol          |  |
| PF-36B-SED 92.27464 606202 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-368-SED | 92.27464 | 121142   | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dinitrotoluene         |  |
| PF-36B-SED 92.27464 206440 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-368-SED | 92.27464 | 606202   | < 330.     |             | UG/KG      | 11/16/92       |          | 2.6-Dinitrotoluene         |  |
| PF-36B-SED 92.27464 86737 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-368-SED | 92.27464 | 206440   | < 330.     |             | UG/KG      | 11/16/92       |          | Fluoranthene               |  |
| PF-36B-SED 92.27464 118741 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PE-36B-SED | 92.27464 | 86737    | < 330.     |             | UG/KG      | 11/16/92       |          | Fluorene                   |  |
| PF-36B-SED 92.27464 87683 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-368-SED | 92.27464 | 118741   | < 330.     |             | UG/KG      | 11/16/92       |          | Hexachlorobenzene          |  |
| PF-36B-SED 92.27464 77474 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-368-SED | 92.27464 | 87683    | < 330.     |             | UG/KG      | 11/16/92       |          | Hexachlorobutadiene        |  |
| PF-36B-SED 92.27464 67721 < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | PE-368-SED | 92.27464 | 77474    | < 330.     |             | UG/KG      | 11/16/92       |          | Hexachlorocyclopentadiene  |  |
| PF-36B-SED   92.27464   193395   < 330.   UG/KG   11/16/92   Indeno[1,2,3-cd]pyrene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PE-368-SED | 92.27464 | 67721    | < 330.     |             | ,<br>UG/KG | 11/16/92       |          | Hexachloroethane           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PE-368-SED | 92.27464 | 193395   | < 330.     |             | UG/KG      | 11/16/92       |          | Indeno[1.2.3-cd]pyrene     |  |
| PF-368-SFD 92.27464 78591 < 330. UG/KG 11/16/92 Isophorone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PF-368-SFD | 92.27464 | 78591    | < 330.     |             | UG/KG      | 11/16/92       |          | Isophorone                 |  |
| PF-368-SFD 92.27464 534521 < 330. UG/KG 11/16/92 2-Methyl-4.6-dinitrophenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PF-368-SFD | 92.27464 | 534521   | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Methyl-4,6-dinitrophenol |  |
| PF-368-SED 92.27464 91576 < 330. UG/KG 11/16/92 2-Methylnaphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PE-368-SED | 92.27464 | 91576    | < 330.     |             | ,<br>UG/KG | 11/16/92       |          | 2-Methylnaphthalene        |  |
| PF-368-SED 92.27464 95487 < 330. UG/KG 11/16/92 2-Methylphenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PE-368-SED | 92.27464 | 95487    | < 330.     |             | ,<br>UG/KG | 11/16/92       |          | 2-Methylphenol             |  |
| PF-36B-SED 92.27464 106445 < 330. UG/KG 11/16/92 4-Methylphenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PF-368-SED | 92.27464 | 106445   | < 330.     |             | ,<br>UG/KG | 11/16/92       |          | 4-Methylphenol             |  |
| PF-36B-SED 92.27464 91203 < 330. UG/KG 11/16/92 Naphthalene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PE-368-SED | 92.27464 | 91203    | < 330.     |             | ,<br>UG/KG | 11/16/92       |          | Naphthalene                |  |
| PF-368-SED 92.27464 88744 < 330. UG/KG 11/16/92 2-Nitroaniline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PE-368-SED | 92.27464 | 88744    | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Nitroaniline             |  |
| PF-36B-SED 92.27464 99092 < 330. UG/KG 11/16/92 3-Nitroaniline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PE-36B-SED | 92.27464 | 99092    | < 330.     |             | UG/KG      | 11/16/92       |          | 3-Nitroaniline             |  |
| PF-368-SED 92.27464 100016 < 330. UG/KG 11/16/92 4-Nitroaniline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PE-368-SED | 92.27464 | 100016   | < 330.     |             | UG/KG      | 11/16/92       |          | 4-Nitroaniline             |  |
| PE-36B-SED 92 27464 98953 < 330. UG/KG 11/16/92 Nitrobenzene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PE-368-SED | 92 27464 | 98953    | < 330.     |             | UG/KG      | 11/16/92       |          | Nitrobenzene               |  |
| PE-368-SED 92.27464 88755 < 330. UG/KG 11/16/92 2-Nitrophenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PE-368-SED | 92.27464 | 88755    | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Nitrophenol              |  |
| PF-36B-SED 92.27464 100027 < 330. UG/KG 11/16/92 4-Nitrophenol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PE-368-SED | 92.27464 | 100027   | < 330.     |             | UG/KG      | 11/16/92       |          | 4-Nitrophenol              |  |
| PF-36B-SED 92 27464 621647 < 330. UG/KG 11/16/92 N-Nitrosodi-n-propylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DE-360-0ED | 92 27464 | 621647   | < 330      |             | UG/KG      | 11/16/92       |          | N-Nitrosodi-n-propylamine  |  |
| PF-36B-SED = 92 27464 = 62759 < 330. UG/KG = 11/16/92 N-Nitrosodimethylamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DE-360-CED | 92 27464 | 62759    | < 330      |             | UG/KG      | 11/16/92       |          | N-Nitrosodimethylamine     |  |
| PF-36B-SED = 92.27464 = 86306 < 330. UG/KG = 11/16/92 N-Nitrosodiphenvlamine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PF-368-SED | 92.27464 | 86306    | < 330.     |             | UG/KG      | 11/16/92       |          | N-Nitrosodiphenylamine     |  |

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|            |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT ** | *****                    |
|------------|----------|----------|------------|-------------|---------|----------------|----------|--------------------------|
| CUSTOMER   | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |          | COMPOUND                 |
| NUMBER     | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT  | NAME                     |
| PF-36B-SED | 92.27464 | 87865    | < 330.     |             | UG/KG   | 11/16/92       |          | <b>Pentachlorophenol</b> |
| PF-36B-SED | 92.27464 | 85018    | 380.       | 114.        | UG/KG   | 11/16/92       |          | Phenanthrene             |
| PF-36B-SED | 92.27464 | 108952   | < 330.     |             | UG/KG   | 11/16/92       |          | Phenol                   |
| PF-36B-SED | 92.27464 | 129000   | < 330.     |             | UG/KG   | 11/16/92       |          | Pyrene                   |
| PF-36B-SED | 92.27464 | 120821   | < 330.     |             | UG/KG   | 11/16/92       |          | 1,2,4-Trichlorobenzene   |
| PF-36B-SED | 92.27464 | 95954    | < 330.     |             | UG/KG   | 11/16/92       |          | 2,4,5-Trichlorophenol    |
| PF-36B-SED | 92.27464 | 88062    | < 330.     |             | UG/KG   | 11/16/92       |          | 2,4,6-Trichlorophenol    |

Tentatively Identified Compounds in Customer Sample # 92.27464



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\*\*\*\*\* EM-9 ANALYTICAL REPORT \*\*\*\*\*

| <u>Matrix Spike</u> | e Results fo | r Sample # 92.274 | <u>64</u> Dat | e Collected: | 9/01/92 | Date Received: | 9/02/92 | Date Extracted: | 9/14/92     | Date Analyzed: | 10/07/92 |
|---------------------|--------------|-------------------|---------------|--------------|---------|----------------|---------|-----------------|-------------|----------------|----------|
|                     | SAMPLE       | ANALVETS          |               |              |         | COMPLETION     |         | COMPOUND        |             |                |          |
| NUMBER              | NUMBER       | ANAL1313          | SPIKED        | RECUVERED    | UNITS   | DATE           | COMMENT | NAME            |             |                |          |
| PF-36B-SED          | 92.27464     | 83329             | 1842.02       | 1400.        | UG/KG   | 11/16/92       |         | Acenaphthene    |             |                |          |
| PF-36B-SED          | 92.27464     | 5 <b>9</b> 507    | 3684.03       | 2800.        | UG/KG   | 11/16/92       |         | 4-Chloro-3-m    | ethylpheno  | l              |          |
| PF-36B-SED          | 92.27464     | 95578             | 3684.03       | 1800.        | UG/KG   | 11/16/92       |         | o-Chlorophen    | ol          |                |          |
| PF-36B-SED          | 92.27464     | 106467            | 1842.02       | 830.         | UG/KG   | 11/16/92       |         | p-Dichlorobe    | nzene (1,4) |                |          |
| PF-36B-SED          | 92.27464     | 121142            | 1842.02       | 1200.        | UG/KG   | 11/16/92       |         | 2,4-Dinitrot    | oluene      |                |          |
| PF-36B-SED          | 92.27464     | 100027            | 3684.03       | 2100.        | UG/KG   | 11/16/92       |         | 4-Nitropheno    | L           |                |          |
| PF-36B-SED          | 92.27464     | 621647            | 1842.02       | 920.         | UG/KG   | 11/16/92       |         | N-Nitrosodi-    | n-propylami | ine            |          |
| PF-36B-SED          | 92.27464     | 87865             | 3684.03       | 2700.        | UG/KG   | 11/16/92       |         | Pentachlorop    | henol       |                |          |
| PF-36B-SED          | 92.27464     | 108952            | 3684.03       | 1900.        | UG/KG   | 11/16/92       |         | Phenot          |             |                |          |
| PF-36B-SED          | 92.27464     | 129000            | 1842.02       | 2000.        | UG/KG   | 11/16/92       |         | Pyrene          |             |                |          |
| PF-36B-SED          | 92.27464     | 120821            | 1842.02       | 1000.        | UG/KG   | 11/16/92       |         | 1,2,4-Trichl    | orobenzene  |                |          |

Matrix Spike Duplicate Results for Sample # 92.27464

Date Collected: 9/01/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 10/07/92

| CUSTOMER   | SAMPLE   |                     | AMOUNT  | AMOUNT    |        | COMPLETION |         | COMPOUND                  |
|------------|----------|---------------------|---------|-----------|--------|------------|---------|---------------------------|
| NUMBER     | NUMBER   | ANALYSIS            | SPIKED  | RECOVERED | UNITS  | DATE       | COMMENT | NAME                      |
| PF-36B-SED | 92.27464 | 83329               | 1834.69 | 1500.     | UG /KG | 11/16/92   |         | Acenaphthene              |
| PF-36B-SED | 92.27464 | 59507               | 3669.38 | 3000.     | UG/KG  | 11/16/92   |         | 4-Chloro-3-methylphenol   |
| PF-36B-SED | 92.27464 | 95578               | 3669.38 | 2400.     | UG/KG  | 11/16/92   |         | o-Chlorophenol            |
| PF-36B-SED | 92.27464 | 106467              | 1834.69 | 1100.     | UG/KG  | 11/16/92   |         | p-Dichlorobenzene (1,4)   |
| PF-36B-SED | 92.27464 | 121142              | 1834.69 | 1300.     | UG/KG  | 11/16/92   |         | 2,4-Dinitrotoluene        |
| PF-36B-SED | 92.27464 | 100027              | 3669.38 | 2600.     | UG/KG  | 11/16/92   |         | 4-Nitrophenol             |
| PF-36B-SED | 92.27464 | 621 <del>6</del> 47 | 1834.69 | 1200.     | UG/KG  | 11/16/92   |         | N-Nitrosodi-n-propylamine |
| PF-36B-SED | 92.27464 | 87865               | 3669.38 | 2900.     | UG/KG  | 11/16/92   |         | Pentachlorophenol         |
| PF-36B-SED | 92.27464 | 108952              | 3669.38 | 2300.     | UG/KG  | 11/16/92   |         | Pheno I                   |
| PF-36B-SED | 92.27464 | 129000              | 1834.69 | 2000.     | UG/KG  | 11/16/92   |         | Pyrene                    |
| PF-36B-SED | 92.27464 | 120821              | 1834.69 | 1300.     | UG/KG  | 11/16/92   |         | 1,2,4-Trichlorobenzene    |

|             |             |               | **          | ******           | ** EM-1    | 9 ANALYTICAL REP | PORT ****     | ****                   |                      |         |
|-------------|-------------|---------------|-------------|------------------|------------|------------------|---------------|------------------------|----------------------|---------|
|             |             |               | E           | PA SEMIVOLATILES | i Pre      | pared by: LAK    | o             | n 16-Nov-1992          |                      |         |
| EQUEST NUME | BER: 13503  | MATRIX        | : SS ANAL   | YST: ANTHONY LO  | MBARDO     | F                | PROGRAM CODE: | M106 NOTEBOOK: R73     | 36 PAGE: 145         |         |
| WNER: Phil  | lip R. Fres | quez (        | GROUP: EM-8 | MAIL-STOP:       | K490 P     | HONE: 7-0815     | TECHNIQUE     | : GCEC ANALYTICAL F    | ROCEDURE: EPA SW-846 | 3RD     |
| ustomer Sam | nple Result | s, Sample ∦ 9 | 92.27465    | Date Collected:  | 9/01/92    | Date Received:   | : 9/02/92     | Date Extracted: 9/14/9 | 2 Date Analyzed: 1   | 0/02/92 |
| USTOMER     | SAMPLE      |               | ANALYTICAL  | ANALYTICAL       |            | COMPLETION       |               | COMPOUND               |                      |         |
| NUMBER      | NUMBER      | ANALYSIS      | RESULT      | UNCERTAINTY      | UNITS      | DATE             | COMMENT       | NAME                   |                      |         |
| F-368-0-0   | 92 27465    | 83329         | < 330.      |                  | UG/KG      | 11/16/92         |               | Acenaphthene           |                      |         |
| 500 0 0     | 92.27465    | 208968        | < 330.      |                  | UG/KG      | 11/16/92         |               | Acenaphthylene         |                      |         |
| F-36B-0-0   | 92.27465    | 62533         | < 330.      |                  | UG/KG      | 11/16/92         |               | Aniline                |                      |         |
| -368-0-0    | 92.27465    | 120127        | < 330.      |                  | ,<br>UG/KG | 11/16/92         |               | Anthracene             |                      |         |
| -36B-0-0    | 92.27465    | 103333        | < 330.      |                  | UG/KG      | 11/16/92         |               | Azobenzene             |                      |         |
| -36B-0-0    | 92.27465    | 92875         | < 330.      |                  | UG/KG      | 11/16/92         |               | m-Benzidine            |                      |         |
| -36B-0-0    | 92.27465    | 56553         | < 330.      |                  | UG/KG      | 11/16/92         |               | Benzo[a]anthracene     |                      |         |
| -368-0-0    | 92.27465    | 50328         | < 330.      |                  | UG/KG      | 11/16/92         |               | Benzo[a]pyrene         |                      |         |
| F-36B-0-0   | 92.27465    | 205992        | < 330.      |                  | UG/KG      | 11/16/92         |               | Benzo[b]fluoranthene   | •                    |         |
| F-36B-0-0   | 92.27465    | 191242        | < 330.      |                  | UG/KG      | 11/16/92         |               | Benzo[g,h,i]perylene   | !                    |         |
| F-36B-0-0   | 92.27465    | 207089        | < 330.      |                  | UG/KG      | 11/16/92         |               | Benzo[k]fluoranthene   |                      |         |
| F-368-0-0   | 92.27465    | 65850         | < 330.      |                  | UG/KG      | 11/16/92         |               | Benzoic acid           |                      |         |
| F-36B-0-0   | 92.27465    | 100516        | < 330.      |                  | UG/KG      | 11/16/92         |               | Benzyl alcohol         |                      |         |
| F-36B-0-0   | 92.27465    | 111911        | < 330.      |                  | UG/KG      | 11/16/92         |               | Bis(2-chloroethoxy)    | nethane              |         |
| F-368-0-0   | 92.27465    | 111444        | < 330.      |                  | UG/KG      | 11/16/92         |               | Bis(2-chloroethyl)e    | her                  |         |
| F-36B-0-0   | 92.27465    | 108601        | < 330.      |                  | UG/KG      | 11/16/92         |               | Bis(2-chloroisoprop    | (l)ether             |         |
| F-36B-0-0   | 92.27465    | 117817        | 2000.       | 600.             | UG/KG      | 11/16/92         |               | Bis(2-ethylhexyl)ph    | halate               |         |
| F-36B-0-0   | 92.27465    | 101553        | < 330.      |                  | UG/KG      | 11/16/92         |               | 4-Bromophenylphenyl    | ether                |         |
| F-368-0-0   | 92.27465    | 85687         | < 330.      |                  | UG/KG      | 11/16/92         |               | Butyl benzyl phthala   | ite                  |         |
| F-36B-0-0   | 92.27465    | 59507         | < 330.      |                  | UG/KG      | 11/16/92         |               | 4-Chloro-3-methylpho   | enol                 |         |
| F-36B-0-0   | 92.27465    | 106478        | < 330.      |                  | UG/KG      | 11/16/92         |               | 4-Chloroaniline        |                      |         |
| F-36B-0-0   | 92.27465    | 91587         | < 330.      |                  | UG/KG      | 11/16/92         |               | 2-Chloronaphthalene    |                      |         |
| F-36B-0-0   | 92.27465    | 95578         | < 330.      |                  | UG/KG      | 11/16/92         |               | o-Chlorophenol         |                      |         |
| F-36B-0-0   | 92.27465    | 7005723       | < 330.      |                  | UG/KG      | 11/16/92         |               | 4-Chlorophenylpheny    | ether                |         |
| F-36B-0-0   | 92.27465    | 218019        | < 330.      |                  | UG/KG      | 11/16/92         |               | Chrysene               |                      |         |
| PF-36P      | 92.27465    | 84742         | < 330.      |                  | UG/KG      | /16/92           |               | Di-n-butyl phthalate   | 2                    |         |
|             |             |               |             |                  |            | )                |               |                        |                      | . 4     |

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REPORT NUMBER: 15911

|            |          |          | ***        | ****        | *** EM-    | 9 ANALYTICAL R | Eport ** | ******                     |  |
|------------|----------|----------|------------|-------------|------------|----------------|----------|----------------------------|--|
| CUSTOMER   | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |            | COMPLETION     |          | COMPOUND                   |  |
| NUMBER     | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS      | DATE           | COMMENT  | NAME                       |  |
| PF-36B-0-0 | 92.27465 | 117840   | < 330.     |             | UG/KG      | 11/16/92       |          | Di-n-octyl obthalate       |  |
| PF-368-0-0 | 92.27465 | 53703    | < 330.     |             | UG/KG      | 11/16/92       |          | Dibenzola.hlanthracene     |  |
| PF-36B-0-0 | 92.27465 | 132649   | < 330.     |             | UG/KG      | 11/16/92       |          | Dibenzofuran               |  |
| PF-36B-0-0 | 92.27465 | 95501    | < 330.     |             | UG/KG      | 11/16/92       |          | o-Dichlorobenzene (1.2)    |  |
| PF-36B-0-0 | 92.27465 | 541731   | < 330.     |             | ,<br>UG/KG | 11/16/92       |          | m-Dichlorobenzene (1,3)    |  |
| PF-36B-0-0 | 92.27465 | 106467   | < 330.     |             | UG/KG      | 11/16/92       |          | p-Dichlorobenzene (1,4)    |  |
| PF-36B-0-0 | 92.27465 | 91941    | < 330.     |             | UG/KG      | 11/16/92       |          | 3.3'-Dichlorobenzidine     |  |
| PF-36B-0-0 | 92.27465 | 120832   | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dichlorophenol         |  |
| PF-36B-0-0 | 92.27465 | 84662    | < 330.     |             | UG/KG      | 11/16/92       |          | Diethvl phthalate          |  |
| PF-36B-0-0 | 92.27465 | 131113   | < 330.     |             | UG/KG      | 11/16/92       |          | Dimethyl phthalate         |  |
| PF-36B-0-0 | 92.27465 | 105679   | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dimethviphenol         |  |
| PF-368-0-0 | 92.27465 | 51285    | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dinitrophenol          |  |
| PF-36B-0-0 | 92.27465 | 121142   | < 330.     |             | UG/KG      | 11/16/92       |          | 2.4-Dinitrotoluene         |  |
| PF-368-0-0 | 92.27465 | 606202   | < 330.     |             | UG/KG      | 11/16/92       |          | 2,6-Dinitrotoluene         |  |
| PF-36B-0-0 | 92.27465 | 206440   | < 330.     |             | UG/KG      | 11/16/92       |          | Fluoranthene               |  |
| PF-36B-0-0 | 92.27465 | 86737    | < 330.     |             | UG/KG      | 11/16/92       |          | Fluorene                   |  |
| PF-36B-0-0 | 92.27465 | 118741   | < 330.     |             | UG/KG      | 11/16/92       |          | Hexachlorobenzene          |  |
| PF-36B-0-0 | 92.27465 | 87683    | < 330.     |             | UG/KG      | 11/16/92       |          | Hexachlorobutadiene        |  |
| PF-36B-0-0 | 92.27465 | 77474    | < 330.     |             | UG/KG      | 11/16/92       |          | Hexachlorocyclopentadiene  |  |
| PF-36B-0-0 | 92.27465 | 67721    | < 330.     |             | UG/KG      | 11/16/92       |          | Hexachloroethane           |  |
| PF-368-0-0 | 92.27465 | 193395   | < 330.     |             | UG/KG      | 11/16/92       |          | Indeno[1,2,3-cd]pyrene     |  |
| PF-368-0-0 | 92.27465 | 78591    | < 330.     |             | UG/KG      | 11/16/92       |          | Isophorone                 |  |
| PF-36B-0-0 | 92.27465 | 534521   | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Methyl-4,6-dinitrophenol |  |
| PF-36B-0-0 | 92.27465 | 91576    | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Methylnaphthalene        |  |
| PF-36B-0-0 | 92.27465 | 95487    | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Methylphenol             |  |
| PF-368-0-0 | 92.27465 | 106445   | < 330.     |             | UG/KG      | 11/16/92       |          | 4-Methylphenol             |  |
| PF-368-0-0 | 92.27465 | 91203    | < 330.     |             | UG/KG      | 11/16/92       |          | Naphthalene                |  |
| PF-368-0-0 | 92.27465 | 88744    | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Nitroaniline             |  |
| PF-36B-0-0 | 92.27465 | 99092    | < 330.     |             | UG/KG      | 11/16/92       |          | 3-Nitroaniline             |  |
| PF-36B-0-0 | 92.27465 | 100016   | < 330.     |             | UG/KG      | 11/16/92       |          | 4-Nitroaniline             |  |
| PF-36B-0-0 | 92.27465 | 98953    | < 330.     |             | UG/KG      | 11/16/92       |          | Nitrobenzene               |  |
| PF-36B-0-0 | 92.27465 | 88755    | < 330.     |             | UG/KG      | 11/16/92       |          | 2-Nitrophenol              |  |
| PF-36B-0-0 | 92.27465 | 100027   | < 330.     |             | UG/KG      | 11/16/92       |          | 4-Nitrophenol              |  |
| PF-36B-0-0 | 92.27465 | 621647   | < 330.     |             | UG/KG      | 11/16/92       |          | N-Nitrosodi-n-propylamine  |  |
| PF-36B-0-0 | 92.27465 | 62759    | < 330.     |             | UG/KG      | 11/16/92       |          | N-Nitrosodimethylamine     |  |
| PF-36B-0-0 | 92.27465 | 86306    | < 330.     |             | UG/KG      | 11/16/92       |          | N-Nitrosodiphenylamine     |  |

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|            |          |          | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT *** | *****                  |
|------------|----------|----------|------------|-------------|---------|----------------|-----------|------------------------|
| CUSTOMER   | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |           | Compound               |
| NUMBER     | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT   | NAME                   |
| PF-368-0-0 | 92.27465 | 87865    | < 330.     |             | UG/KG   | 11/16/92       |           | Pentachlorophenol      |
| PF-368-0-0 | 92.27465 | 85018    | < 330.     |             | UG/KG   | 11/16/92       |           | Phenanthrene           |
| PF-36B-0-0 | 92.27465 | 108952   | < 330.     |             | UG/KG   | 11/16/92       |           | Pheno l                |
| PF-36B-0-0 | 92.27465 | 129000   | < 330.     |             | UG/KG   | 11/16/92       |           | Pyrene                 |
| PF-36B-0-0 | 92.27465 | 120821   | < 330.     |             | UG/KG   | 11/16/92       |           | 1,2,4-Trichlorobenzene |
| PF-36B-0-0 | 92.27465 | 95954    | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4,5-Trichlorophenol  |
| PF-36B-0-0 | 92.27465 | 88062    | < 330.     |             | UG/KG   | 11/16/92       |           | 2,4,6-Trichlorophenol  |

Tentatively Identified Compounds in Customer Sample # 92.27465

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|                                                                                                                                           |            |               | ****        | *****         | ** EM- | 9 ANALYTICAL REPO | ORT *****    | ****                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------|-------------|---------------|--------|-------------------|--------------|---------------------------------------------|--|
|                                                                                                                                           |            | <u> </u>      | EPA         | SEMIVOLATILES | Pre    | pared by: LAK     | 0            | n 16-Nov-1992                               |  |
| REQUEST NUMB                                                                                                                              | ER: 13503  | MATRIX        | : SS ANALYS | T: ANTHONY LO | MBARDO | P                 | ROGRAM CODE: | M106 NOTEBOOK: R7336 PAGE: 145              |  |
| OWNER: Phil                                                                                                                               | ip R. Fres | quez          | GROUP: EM-8 | MAIL-STOP:    | K490 P | HONE: 7-0815      | TECHNIQUE    | : GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD |  |
| Customer Sample Results, Sample # 92.27466 Date Collected: 9/01/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 10/02/92 |            |               |             |               |        |                   |              |                                             |  |
| CUSTONER                                                                                                                                  | SAMPI F    |               | ANAL YTTCAL | ANAI YTTCAL   |        | COMPLETION        |              | COMPOUND                                    |  |
| NIMBER                                                                                                                                    | NUMBER     | ANALYSIS      | RESULT      | UNCERTAINTY   | UNITS  | DATE              | COMMENT      | NAME                                        |  |
|                                                                                                                                           |            |               |             |               |        |                   |              |                                             |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 83329         | < 330.      |               | UG/KG  | 11/16/92          |              | Acenaphthene                                |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 208968        | < 330.      |               | UG/KG  | 11/16/92          |              | Acenaphthylene                              |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 62533         | < 330.      |               | UG/KG  | 11/16/92          |              | Aniline                                     |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 120127        | < 330.      |               | UG/KG  | 11/16/92          |              | Anthracene                                  |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 103333        | < 330.      |               | UG/KG  | 11/16/92          |              | Azobenzene                                  |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 92875         | < 330.      |               | UG/KG  | 11/16/92          |              | m-Benzidine                                 |  |
| PF-36B-E6OR                                                                                                                               | 92.27466   | 56553         | < 330.      |               | UG/KG  | 11/16/92          |              | Benzo[a]anthracene                          |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 50328         | < 330.      |               | UG/KG  | 11/16/92          |              | Benzo[a]pyrene                              |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 205992        | < 330.      |               | UG/KG  | 11/16/92          |              | 8enzo[b]fluoranthene                        |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 191242        | < 330.      |               | UG/KG  | 11/16/92          |              | Benzo[g,h,i]perylene                        |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 207089        | < 330.      |               | UG/KG  | 11/16/92          |              | Benzo[k]fluoranthene                        |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 65850         | < 330.      |               | UG/KG  | 11/16/92          |              | Benzoic acid                                |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 100516        | < 330.      |               | UG/KG  | 11/16/92          |              | Benzyl alcohol                              |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 111911        | < 330.      |               | UG/KG  | 11/16/92          |              | Bis(2-chloroethoxy)methane                  |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 111444        | < 330.      |               | UG/KG  | 11/16/92          |              | Bis(2-chloroethyl)ether                     |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 108601        | < 330.      |               | UG/KG  | 11/16/92          |              | Bis(2-chloroisopropyl)ether                 |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 117817        | < 330.      |               | UG/KG  | 11/16/92          |              | Bis(2-ethylhexyl)phthalate                  |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 101553        | < 330.      |               | UG/KG  | 11/16/92          |              | 4-Bromophenylphenyl ether                   |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 85687         | < 330.      |               | UG/KG  | 11/16/92          |              | Butyl benzyl phthalate                      |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 59507         | < 330.      |               | UG/KG  | 11/16/92          |              | 4-Chloro-3-methylphenol                     |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 106478        | < 330.      |               | UG/KG  | 11/16/92          |              | 4-Chloroaniline                             |  |
| PF-36B-E6OR                                                                                                                               | 92.27466   | 91587         | < 330.      |               | UG/KG  | 11/16/92          |              | 2-Chloronaphthalene                         |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 9557 <b>8</b> | < 330.      |               | UG/KG  | 11/16/92          |              | o-Chlorophenol                              |  |
| PF-368-E60R                                                                                                                               | 92.27466   | 7005723       | < 330.      |               | UG/KG  | 11/16/92          |              | 4-Chlorophenylphenyl ether                  |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 218019        | < 330.      |               | UG/KG  | 11/16/92          |              | Chrysene                                    |  |
| PF-36B-E60R                                                                                                                               | 92.27466   | 84742         | < 330.      |               | UG/KG  | 11/16/92          |              | Di-n-butyl phthalate                        |  |

|             |          |               | ***        | *****       | *** EM- | 9 ANALYTICAL R | EPORT ** | *****                       |      |
|-------------|----------|---------------|------------|-------------|---------|----------------|----------|-----------------------------|------|
| CUSTOMER    | SAMPLE   |               | ANALYTICAL | ANALYTICAL  |         | COMPLETION     |          | COMPOUND                    | **** |
| NUMBER      | NUMBER   | ANALYSIS      | RESULT     | UNCERTAINTY | UNITS   | DATE           | COMMENT  | NAME                        |      |
| PF-36B-E60R | 92.27466 | 117840        | < 330.     |             | UG/KG   | 11/16/92       |          | Di-n-octyl phthalate        |      |
| PF-368-E60R | 92.27466 | 53703         | < 330.     |             | UG/KG   | 11/16/92       |          | Dibenzo[a,h]anthracene      |      |
| PF-36B-E60R | 92.27466 | 132649        | < 330.     |             | UG/KG   | 11/16/92       |          | Dibenzofuran                |      |
| PF-368-E60R | 92.27466 | 95501         | < 330.     |             | UG/KG   | 11/16/92       |          | o-Dichlorobenzene (1.2)     |      |
| PF-36B-E60R | 92.27466 | 541731        | < 330.     |             | UG/KG   | 11/16/92       |          | m-Dichlorobenzene (1.3)     |      |
| PF-368-E60R | 92.27466 | 106467        | < 330.     |             | UG/KG   | 11/16/92       |          | p-Dichlorobenzene (1.4)     |      |
| PF-368-E60R | 92.27466 | 91941         | < 330.     |             | UG/KG   | 11/16/92       |          | 3,3'-Dichlorobenzidine      |      |
| PF-368-E60R | 92.27466 | 120832        | < 330.     |             | UG/KG   | 11/16/92       |          | 2,4-Dichlorophenol          |      |
| PF-36B-E60R | 92.27466 | 84662         | < 330.     |             | UG/KG   | 11/16/92       |          | Diethyl phthalate           |      |
| PF-36B-E60R | 92.27466 | 131113        | < 330.     |             | UG/KG   | 11/16/92       |          | Dimethyl phthalate          |      |
| PF-368-E60R | 92.27466 | 105679        | < 330.     |             | UG/KG   | 11/16/92       |          | 2,4-Dimethylphenol          |      |
| PF-368-E60R | 92.27466 | 51285         | < 330.     |             | UG/KG   | 11/16/92       |          | 2,4-Dinitrophenol           |      |
| PF-368-E60R | 92.27466 | 121142        | < 330.     |             | UG/KG   | 11/16/92       |          | 2,4-Dinitrotoluene          |      |
| PF-36B-E60R | 92.27466 | 606202        | < 330.     |             | UG/KG   | 11/16/92       |          | 2,6-Dinitrotoluene          |      |
| PF-368-E60R | 92.27466 | 206440        | < 330.     |             | UG/KG   | 11/16/92       |          | Fluoranthene                |      |
| PF-36B-E6OR | 92.27466 | 86737         | < 330.     |             | UG/KG   | 11/16/92       |          | Fluorene                    |      |
| PF-36B-E60R | 92.27466 | 118741        | < 330.     |             | UG/KG   | 11/16/92       |          | Hexach lorobenzene          |      |
| PF-368-E60R | 92.27466 | 87683         | < 330.     |             | UG/KG   | 11/16/92       |          | <b>Hexach</b> lorobutadiene |      |
| PF-368-E60R | 92.27466 | 77474         | < 330.     |             | UG/KG   | 11/16/92       |          | Hexach lorocyc lopentadiene |      |
| PF-36B-E60R | 92.27466 | 67721         | < 330.     |             | UG/KG   | 11/16/92       |          | Hexachloroethane            |      |
| PF-36B-E60R | 92.27466 | 193395        | < 330.     |             | UG/KG   | 11/16/92       |          | Indeno[1,2,3-cd]pyrene      |      |
| PF-36B-E6OR | 92.27466 | 78591         | < 330.     |             | UG/KG   | 11/16/92       |          | Isophorone                  |      |
| PF-368-E60R | 92.27466 | 534521        | < 330.     |             | UG/KG   | 11/16/92       |          | 2-Methyl-4,6-dinitrophenol  |      |
| PF-36B-E60R | 92.27466 | 91576         | < 330.     |             | UG/KG   | 11/16/92       |          | 2-Methylnaphthalene         |      |
| PF-368-E60R | 92.27466 | 95487         | < 330.     |             | UG/KG   | 11/16/92       |          | 2-Methylphenol              |      |
| PF-368-E60R | 92.27466 | 106445        | < 330.     |             | UG/KG   | 11/16/92       |          | 4-Methylphenol              |      |
| PF-36B-E6OR | 92.27466 | 91203         | < 330.     |             | UG/KG   | 11/16/92       |          | Naphthalene                 |      |
| PF-36B-E60R | 92.27466 | 88744         | < 330.     |             | UG/KG   | 11/16/92       |          | 2-Nitroaniline              |      |
| PF-368-E60R | 92.27466 | <b>99</b> 092 | < 330.     |             | UG/KG   | 11/16/92       |          | 3-Nitroaniline              |      |
| PF-368-E60R | 92.27466 | 100016        | < 330.     |             | UG/KG   | 11/16/92       |          | 4-Nitroaniline              |      |
| PF-36B-E60R | 92.27466 | 98953         | < 330.     |             | UG/KG   | 11/16/92       |          | Nitrobenzene                |      |
| PF-36B-E60R | 92.27466 | 88755         | < 330.     |             | UG/KG   | 11/16/92       |          | 2-Nitrophenol               |      |
| PF-36B-E6OR | 92.27466 | 100027        | < 330.     |             | UG/KG   | 11/16/92       |          | 4-Nitrophenol               |      |
| PF-36B-E60R | 92.27466 | 621647        | < 330.     |             | UG/KG   | 11/16/92       |          | N-Nitrosodi-n-propylamine   |      |
| PF-36B-E60R | 92.27466 | 62759         | < 330.     |             | UG/KG   | 11/16/92       |          | N-Nitrosodimethylamine      |      |
| PF-368      | 92.27466 | 86306         | < 330.     |             | UG/KG   | 16/92          |          | N-Nitrosodiphenylamine      |      |

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# REPORT NUMBER: 15911

|             |          |          | ************************************** |             |       |            |         |                        |
|-------------|----------|----------|----------------------------------------|-------------|-------|------------|---------|------------------------|
| CUSTOMER    | SAMPLE   |          | ANALYTICAL                             | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |
| NUMBER      | NUMBER   | ANALYSIS | RESULT                                 | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |
| PF-36B-E60R | 92.27466 | 87865    | < 330.                                 |             | UG/KG | 11/16/92   |         | Pentachlorophenol      |
| PF-368-E60R | 92.27466 | 85018    | < 330.                                 |             | UG/KG | 11/16/92   |         | Phenanthrene           |
| PF-368-E60R | 92.27466 | 108952   | < 330.                                 |             | UG/KG | 11/16/92   |         | Pheno l                |
| PF-368-E60R | 92.27466 | 129000   | < 330.                                 |             | UG/KG | 11/16/92   |         | Pyrene                 |
| PF-36B-E60R | 92.27466 | 120821   | < 330.                                 |             | UG/KG | 11/16/92   |         | 1,2,4-Trichlorobenzene |
| PF-368-E60R | 92.27466 | 95954    | < 330.                                 |             | UG/KG | 11/16/92   |         | 2,4,5-Trichlorophenot  |
| PF-368-E60R | 92.27466 | 88062    | < 330.                                 |             | UG/KG | 11/16/92   |         | 2,4,6-Trichlorophenol  |

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Tentatively Identified Compounds in Customer Sample # 92.27466

none

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|                           |            | ********                  | EM-9 QUALITY ASSURANCE REPO | DRT    | *****                                     |
|---------------------------|------------|---------------------------|-----------------------------|--------|-------------------------------------------|
|                           |            | EPA SEMIVOLATILES         | Prepared by: LAK            | оп     | 16-Nov-1992                               |
| REQUEST NUMBER: 13503     | MATRIX: SS | ANALYST: ANTHONY LOMBARDO | PROGRAM                     | CODE:  | M106 NOTEBOOK: R7336 PAGE: 145            |
| OWNER: Philip R. Fresquez | GROUP :    | EM-8 MAIL-STOP: K490      | PHONE: 7-0815 TECH          | NIQUE: | GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

- \_\_\_\_ Only qualitative data requested
- \_\_\_\_\_ Only Blind QC samples run with this batch.
- \_\_\_\_ No QC samples run with this sample batch.
- \_\_\_\_\_ No QC samples for this constituent and matrix type available within EM-9

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## SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

| <u>Blank Resu</u> | its, Sample i | 92.27504 | Date Collected | : 9/02/92   | Date Received: | 9/02/92 | Date Extracted | : 9/14/92  | 2 Date Analyz | ed: 9/24/92                 |
|-------------------|---------------|----------|----------------|-------------|----------------|---------|----------------|------------|---------------|-----------------------------|
| CUSTOMER          | SAMPLE        |          | ANALYTICAL     | ANALYTICAL  |                | QC      | QC             | COMPLETION |               | COMPOUND                    |
| NUMBER            | NUMBER        | ANALYSIS | RESULT         | UNCERTAINTY | UNITS          | VALUE   | UNCERTAINTY    | DATE       | COMMENT       | NAME                        |
| 00.20227          | 92.27504      | 83329    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Acenaphthene                |
| 00.20227          | 92.27504      | 208968   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Acenaphthylene              |
| 00.20227          | 92.27504      | 62533    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Aniline                     |
| 00.20227          | 92.27504      | 120127   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Anthracene                  |
| 00.20227          | 92.27504      | 103333   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Azobenzene                  |
| 00.20227          | 92.27504      | 92875    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | m-Benzidine                 |
| 00.20227          | 92.27504      | 56553    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Benzo[a]anthracene          |
| 00.20227          | 92.27504      | 50328    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Benzo[a]pyrene              |
| 00.20227          | 92.27504      | 205992   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Benzo[b]fluoranthene        |
| 00.20227          | 92.27504      | 191242   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Benzo[a,h,i]perviene        |
| 00.20227          | 92.27504      | 207089   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Benzo[k]fluoranthene        |
| 00.20227          | 92.27504      | 65850    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Benzoic acid                |
| 00.20227          | 92.27504      | 100516   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Benzyl alcohol              |
| 00.20227          | 92.27504      | 111911   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Bis(2-chloroethoxy)methane  |
| 00.20227          | 92.27504      | 111444   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Bis(2-chloroethyl)ether     |
| 00.20227          | 92.27504      | 108601   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Bis(2-chloroisopropyl)ether |
| 00.20227          | 92.27504      | 117817   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Bis(2-ethylhexyl)phthalate  |
| 00.20227          | 92.27504      | 101553   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | 4-Bromophenviphenvi ether   |
| 00.20227          | 92.27504      | 85687    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | Butyl benzyl phthalate      |
| 00.20227          | 92.27504      | 59507    | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | 4-Chloro-3-methylphenol     |
| 00.20227          | 92.27504      | 106478   | < 330.         |             | UG/KG          | 0.0     |                | 11/16/92   | UNDER CONTROL | 4-Chloroaniline             |

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| CUSTOMER | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION | 4             | COMPOUND                         |
|----------|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|----------------------------------|
| NUMBER   | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       | NAME                             |
| 00.20227 | 92.27504 | 91587    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2-Chloronaphthalene              |
| 00.20227 | 92.27504 | 95578    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | o-Chlorophenol                   |
| 00.20227 | 92.27504 | 7005723  | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 4-Chlorophenylphenyl ether       |
| 00.20227 | 92.27504 | 218019   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Chrysene                         |
| 00.20227 | 92.27504 | 84742    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Di-n-butyl phthalate             |
| 00.20227 | 92.27504 | 117840   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Di-n-octyl phthalate             |
| 00.20227 | 92.27504 | 53703    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Dibenzo[a,h]anthracene           |
| 00.20227 | 92.27504 | 132649   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Dibenzofuran                     |
| 00.20227 | 92.27504 | 95501    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | o-Dichlorobenzene (1,2)          |
| 00.20227 | 92.27504 | 541731   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | m-Dichlorobenzene (1,3)          |
| 00.20227 | 92.27504 | 106467   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | p-Dichlorobenzene (1,4)          |
| 00.20227 | 92.27504 | 91941    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 3,3'~Dichlorobenzidine           |
| 00.20227 | 92.27504 | 120832   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dichlorophenol               |
| 00.20227 | 92.27504 | 84662    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Diethyl phthalate                |
| 00.20227 | 92.27504 | 131113   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Dimethyl phthalate               |
| 00.20227 | 92.27504 | 105679   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dimethylphenol               |
| 00.20227 | 92.27504 | 51285    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dinitrophenol                |
| 00.20227 | 92.27504 | 121142   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dinitrotoluene               |
| 00.20227 | 92.27504 | 606202   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,6-Dinitrotoluene               |
| 00.20227 | 92.27504 | 206440   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Fluoranthene                     |
| 00.20227 | 92.27504 | 86737    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Fluorene                         |
| 00.20227 | 92.27504 | 118741   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Hexachlorobenzene                |
| 00.20227 | 92.27504 | 87683    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Hexachlorobutadiene              |
| 00.20227 | 92.27504 | 77474    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | <b>Hexachlorocyclopentadiene</b> |
| 00.20227 | 92.27504 | 67721    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Hexachloroethane                 |
| 00.20227 | 92.27504 | 193395   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Indeno[1,2,3-cd]pyrene           |
| 00.20227 | 92.27504 | 78591    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Isophorone                       |
| 00.20227 | 92.27504 | 534521   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2-Methyl-4,6-dinitrophenol       |
| 00.20227 | 92.27504 | 91576    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2-Methylnaphthalene              |
| 00.20227 | 92.27504 | 95487    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2-Methylphenol                   |
| 00.20227 | 92.27504 | 106445   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 4-Methylphenol                   |
| 00.20227 | 92.27504 | 91203    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Naphthalene                      |
| 00.20227 | 92.27504 | 88744    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2-Nitroaniline                   |
| 00.20227 | 92.27504 | 99092    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 3-Nitroaniline                   |
| 00.20227 | 92.27504 | 100016   | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 4-Nitroaniline                   |
| 00 20227 | 92.27504 | 98953    | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Nitrobenzene                     |

\*\*\*\*\*\*\*\*\*\*\*\*\*\* EM-9 QUALITY ASSURANCE REPORT \*\*\*\*\*\*\*\*\*\*\*\*

#### REPORT NUMBER: 15911

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< 330.

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|                   |               |          |                | **********  | *** EM-9 QUALI | TY ASSURAN | CE REPORT *   | *******    | **             |                           |
|-------------------|---------------|----------|----------------|-------------|----------------|------------|---------------|------------|----------------|---------------------------|
| CUSTOMER          | SAMPLE        |          | ANALYTICAL     | ANALYTICAL  |                | QC         | QC            | COMPLETIO  | ۷              | COMPOUND                  |
| NUMBER            | NUMBER        | ANALYSIS | RESULT         | UNCERTAINTY | UNITS          | VALUE      | UNCERTAINTY   | DATE       | COMMENT        | NAME                      |
| 00.20227          | 92.27504      | 88755    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | 2-Nitrophenol             |
| 00.20227          | 92.27504      | 100027   | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | 4-Nitrophenol             |
| 00.20227          | 92.27504      | 621647   | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | N-Nitrosodi-n-propylamine |
| 00.20227          | 92.27504      | 62759    | < 330.         | ·           | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | N-Nitrosodimethylamine    |
| 00.20227          | 92.27504      | 86306    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | N-Nitrosodinhenylamine    |
| 00.20227          | 92.27504      | 87865    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | Pentachlorophenol         |
| 00.20227          | 92.27504      | 85018    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   |                | Phenanthrene              |
| 00.20227          | 92.27504      | 108952   | < 330.         |             | ,<br>UG/KG     | 0.0        |               | 11/16/92   | UNDER CONTROL  | Phenol                    |
| 00.20227          | 92.27504      | 129000   | < 330.         |             | ,<br>UG/KG     | 0.0        |               | 11/16/92   |                | Pyrene                    |
| 00.20227          | 92.27504      | 120821   | < 330.         |             | ,<br>UG/KG     | 0.0        |               | 11/16/92   | UNDER CONTROL  | 1 2 4-Trichlorobenzene    |
| 00.20227          | 92.27504      | 95954    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | 2 4 5-Trichlorophenol     |
| 00.20227          | 92.27504      | 88062    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | 2,4,6-Trichlorophenol     |
| <u>Blank Resu</u> | its, Sample i | 92.27505 | Date Collected | : 9/02/92   | Date Received: | 9/02/92    | Date Extracte | d: 9/14/92 | 2 Date Analyze | d: 9/24/92                |
| CUSTOMER          | SAMPLE        |          | ANALYTICAL     | ANALYTICAL  |                | QC         | QC            | COMPLETION | l              | COMPOUND                  |
| NUMBER            | NUMBER        | ANALYSIS | RESULT         | UNCERTAINTY | UNITS          | VALUE      | UNCERTAINTY   | DATE       | COMMENT        | NAME                      |
| 00.20227          | 92.27505      | 83329    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | Acenaphthene              |
| 00.20227          | 92.27505      | 208968   | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | Acenaphthylene            |
| 00.20227          | 92.27505      | 62533    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | Aniline                   |
| 00.20227          | 92.27505      | 120127   | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | Anthracene                |
| 00.20227          | 92.27505      | 103333   | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | Azobenzene                |
| 00.20227          | 92.27505      | 92875    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | m-Benzidine               |
| 00.20227          | 92.27505      | 56553    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | <b>Benzo[a]anthracene</b> |
| 00.20227          | 92.27505      | 50328    | < 330.         |             | UG/KG          | 0.0        |               | 11/16/92   | UNDER CONTROL  | Benzo[a]pyrene            |

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11/16/92 UNDER CONTROL

Benzo[b]fluoranthene

UG/KG

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#### REPORT NUMBER: 15911

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| CUSTOMER | SAMPLE   |               | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION | l             | COMPOUND                    |
|----------|----------|---------------|------------|-------------|-------|-------|-------------|------------|---------------|-----------------------------|
| NUMBER   | NUMBER   | ANALYSIS      | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       | NAME                        |
| 00.20227 | 92.27505 | 191242        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Benzo[g,h,i]perylene        |
| 00.20227 | 92.27505 | 207089        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Benzo[k]fluoranthene        |
| 00.20227 | 92.27505 | 65850         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Benzoic acid                |
| 00.20227 | 92.27505 | 100516        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Benzyl alcohol              |
| 00.20227 | 92.27505 | 111911        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Bis(2-chloroethoxy)methane  |
| 00.20227 | 92.27505 | 111444        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Bis(2-chloroethyl)ether     |
| 00.20227 | 92.27505 | 108601        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Bis(2-chloroisopropyl)ether |
| 00.20227 | 92.27505 | 117817        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Bis(2-ethylhexyl)phthalate  |
| 00.20227 | 92.27505 | 101553        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 4-Bromophenylphenyl ether   |
| 00.20227 | 92.27505 | 85687         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Butyl benzyl phthalate      |
| 00.20227 | 92.27505 | 59507         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 4-Chloro-3-methylphenol     |
| 00.20227 | 92.27505 | 106478        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 4-Chloroaniline             |
| 00.20227 | 92.27505 | 91587         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2-Chloronaphthalene         |
| 00.20227 | 92.27505 | 9557 <b>8</b> | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | o-Chlorophenol              |
| 00.20227 | 92.27505 | 7005723       | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 4-Chlorophenylphenyl ether  |
| 00.20227 | 92.27505 | 218019        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Chrysene                    |
| 00.20227 | 92.27505 | 84742         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Di-n-butyl phthalate        |
| 00.20227 | 92.27505 | 117840        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Di-n-octyl phthalate        |
| 00.20227 | 92.27505 | 53703         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Dibenzo[a,h]anthracene      |
| 00.20227 | 92.27505 | 132649        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Dibenzofuran                |
| 00.20227 | 92.27505 | 95501         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | o-Dichlorobenzene (1,2)     |
| 00.20227 | 92.27505 | 541731        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | m-Dichlorobenzene (1,3)     |
| 00.20227 | 92.27505 | 106467        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | p-Dichlorobenzene (1,4)     |
| 00.20227 | 92.27505 | 91941         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 3,3'-Dichlorobenzidine      |
| 00.20227 | 92.27505 | 120832        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dichlorophenol          |
| 00.20227 | 92.27505 | 84662         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Diethyl phthalate           |
| 00.20227 | 92.27505 | 131113        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Dimethyl phthalate          |
| 00.20227 | 92.27505 | 105679        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dimethylphenol          |
| 00.20227 | 92.27505 | 51285         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dinitrophenol           |
| 00.20227 | 92.27505 | 121142        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,4-Dinitrotoluene          |
| 00.20227 | 92.27505 | 606202        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | 2,6-Dinitrotoluene          |
| 00.20227 | 92.27505 | 206440        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Fluoranthene                |
| 00.20227 | 92.27505 | 86737         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Fluorene                    |
| 00.20227 | 92.27505 | 118741        | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Hexachlorobenzene           |
| 00.20227 | 92.27505 | 87683         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Hexachlorobutadiene         |
| 00.20227 | 92.27505 | 77474         | < 330.     |             | UG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL | Hexachlorocyclopentadiene   |



With a

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| ********** | EM-9 QUALITY | ASSURANCE REPORT | ********* |
|------------|--------------|------------------|-----------|
|------------|--------------|------------------|-----------|

| SAMPLE   |                                                                                                                                                                                                                                                                                                                                                      | ANALYTICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ANALYTICAL                                                                       |                                                                                                    | QC                                                                                                                               | QC                                                                                                                               | COMPLETION                                                                                                                                               | I                                                                                                                                                                       | COMPOUND                                                                                                                                                                          |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NUMBER   | ANALYSIS                                                                                                                                                                                                                                                                                                                                             | RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UNCERTAINTY                                                                      | UNITS                                                                                              | VALUE                                                                                                                            | UNCERTAINTY                                                                                                                      | DATE                                                                                                                                                     | COMMENT                                                                                                                                                                 | NAME                                                                                                                                                                              |
| 92.27505 | 67721                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Hexachloroethane                                                                                                                                                                  |
| 92.27505 | 193395                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Indeno[1,2,3-cd]pyrene                                                                                                                                                            |
| 92.27505 | 78591                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Isophorone                                                                                                                                                                        |
| 92.27505 | 534521                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 2-Methyl-4,6-dinitrophenol                                                                                                                                                        |
| 92.27505 | 91576                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 2-Methylnaphthalene                                                                                                                                                               |
| 92.27505 | 95487                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 2-Methylphenol                                                                                                                                                                    |
| 92.27505 | 106445                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 4-Methylphenol                                                                                                                                                                    |
| 92.27505 | 91203                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Naphthalene                                                                                                                                                                       |
| 92.27505 | 88744                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 2-Nitroaniline                                                                                                                                                                    |
| 92.27505 | 99092                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 3-Nitroaniline                                                                                                                                                                    |
| 92.27505 | 100016                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 4-Nitroaniline                                                                                                                                                                    |
| 92.27505 | 98953                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Nitrobenzene                                                                                                                                                                      |
| 92.27505 | 88755                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 2-Nitrophenol                                                                                                                                                                     |
| 92.27505 | 100027                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 4-Nitrophenol                                                                                                                                                                     |
| 92.27505 | 621647                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | N-Nitrosodi-n-propylamine                                                                                                                                                         |
| 92.27505 | 62759                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | N-Nitrosodimethylamine                                                                                                                                                            |
| 92.27505 | 86306                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | N-Nitrosodiphenylamine                                                                                                                                                            |
| 92.27505 | 87865                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Pentachlorophenol                                                                                                                                                                 |
| 92.27505 | 85018                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Phenanthrene                                                                                                                                                                      |
| 92.27505 | 108952                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Phenol                                                                                                                                                                            |
| 92.27505 | 129000                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | Pyrene                                                                                                                                                                            |
| 92.27505 | 120821                                                                                                                                                                                                                                                                                                                                               | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 1,2,4-Trichlorobenzene                                                                                                                                                            |
| 92.27505 | 95954                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 2,4,5-Trichlorophenol                                                                                                                                                             |
| 92.27505 | 88062                                                                                                                                                                                                                                                                                                                                                | < 330.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                  | UG/KG                                                                                              | 0.0                                                                                                                              |                                                                                                                                  | 11/16/92                                                                                                                                                 | UNDER CONTROL                                                                                                                                                           | 2,4,6-Trichlorophenol                                                                                                                                                             |
|          | SAMPLE<br>NUMBER<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505<br>92.27505 | SAMPLE     NUMBER   ANALYSIS     92.27505   67721     92.27505   193395     92.27505   193395     92.27505   78591     92.27505   534521     92.27505   91576     92.27505   95487     92.27505   91203     92.27505   91203     92.27505   88744     92.27505   9092     92.27505   98953     92.27505   100016     92.27505   100027     92.27505   621647     92.27505   86306     92.27505   87865     92.27505   108952     92.27505   120800     92.27505   120821     92.27505   120821     92.27505   88062 | SAMPLE   ANALYTICAL     NUMBER   ANALYSIS   RESULT     92.27505   67721   < 330. | SAMPLE   ANALYSIS   ANALYTICAL<br>RESULT   ANALYTICAL<br>UNCERTAINTY     92.27505   67721   < 330. | SAMPLE   ANALYTICAL   ANALYTICAL   ANALYTICAL     NUMBER   ANALYSIS   RESULT   UNCERTAINTY   UNITS     92.27505   67721   < 330. | SAMPLE   ANALYTICAL   ANALYTICAL   QC     NUMBER   ANALYSIS   RESULT   UNCERTAINTY   UNITS   VALUE     92.27505   67721   < 330. | SAMPLE   ANALYTICAL   ANALYTICAL   QC   QC   QC     NUMBER   ANALYSIS   RESULT   UNCERTAINTY   UNITS   VALUE   UNCERTAINTY     92.27505   67721   < 330. | SAMPLE   ANALYTICAL   ANALYTICAL   QC   QC   COMPLETION     NUMBER   ANALYSIS   RESULT   UNCERTAINTY   UNITS   VALUE   UNCERTAINTY   DATE     92.27505   67721   < 330. | SAMPLE   ANALYTICAL   ANALYTICAL   QC   QC   COMPLETION     NUMBER   ANALYSIS   RESULT   UNCERTAINTY   UNITS   VALUE   UNCERTAINTY   DATE   COMMENT     92.27505   67721   < 330. |

Blank Spike Results: none

Blank Spike Duplicate Results: none

#### \*\*\*\*\* EM-9 QUALITY ASSURANCE REPORT \*\*\*\*\*\*\*\*\*

#### SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 92.27502 Date Collected: 9/02/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 9/24/92

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION |                 |                                 |
|----------|----------|------------|-------------|-------|-------|-------------|------------|-----------------|---------------------------------|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT         | COMPOUND-NAME                   |
| 92.27502 | 83329    | 2.4        | 0.72        | MG/KG | 4.    | 0.4         | 11/16/92   | UNDER CONTROL   | Acenaphthene                    |
| 92.27502 | 208968   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Acenaphthylene                  |
| 92.27502 | 62533    | < 0.33     |             | MG/KG | 4.7   | 0.5         | 11/16/92   | OUT OF CONTROL  | Aniline                         |
| 92.27502 | 120127   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Anthracene                      |
| 92.27502 | 103333   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Azobenzene                      |
| 92.27502 | 92875    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | m-Benzidine                     |
| 92.27502 | 56553    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Benzo[a]anthracene              |
| 92.27502 | 50328    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Benzo[a]pyrene                  |
| 92.27502 | 205992   | 3.         | 0.9         | MG/KG | 4.4   | 0.4         | 11/16/92   | UNDER CONTROL   | Benzo[b]fluoranthene            |
| 92.27502 | 191242   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | <pre>Benzo[g,h,i]perylene</pre> |
| 92.27502 | 207089   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Benzo[k]fluoranthene            |
| 92.27502 | 65850    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Benzoic acid                    |
| 92.27502 | 100516   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Benzyl alcohol                  |
| 92.27502 | 111911   | < 0.33     |             | MG/KG | 0.0   | •           | 11/16/92   | UNDER CONTROL   | Bis(2-chloroethoxy)methane      |
| 92.27502 | 111444   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Bis(2-chloroethyl)ether         |
| 92.27502 | 108601   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Bis(2-chloroisopropyl)ether     |
| 92.27502 | 117817   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Bis(2-ethylhexyl)phthalate      |
| 92.27502 | 101553   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | 4-Bromophenylphenyl ether       |
| 92.27502 | 85687    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Butyl benzyl phthalate          |
| 92.27502 | 59507    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | 4-Chloro-3-methylphenol         |
| 92.27502 | 106478   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | 4-Chloroaniline                 |
| 92.27502 | 91587    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | 2-Chloronaphthalene             |
| 92.27502 | 95578    | 2.4        | 0.72        | MG/KG | 4.4   | 0.4         | 11/16/92   | WARNING 2-3 SIG | o-Chlorophenol                  |
| 92.27502 | 7005723  | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | 4-Chlorophenylphenyl ether      |
| 92.27502 | 218019   | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Chrysene                        |
| 92.2750° | 84742    | < 0.33     |             | MG/KG | 0.0   |             | 11/16/92   | UNDER CONTROL   | Di-n-butyl phthalate            |

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#### \*\*\*\*\* EM-9 QUALITY ASSURANCE REPORT \*\*\*\*\*

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#### SURROGATE RESULTS FOR EPA SEMIVOLATILES

| Surrogate | 1 | * | 2-Fluorophenol       | (CAS | ŧ | - | 367124)  |
|-----------|---|---|----------------------|------|---|---|----------|
| Surrogate | 2 | - | Pheno l-d5           | (CAS | ŧ | = | 4165622) |
| Surrogate | 3 | = | Nitrobenzene-d5      | (CAS | ŧ | = | 4165600) |
| Surrogate | 4 | - | 2-Fluorobiphenyl     | (CAS | ŧ | = | 321608)  |
| Surrogate | 5 | - | 2,4,6-Tribromophenol | (CAS | ŧ | = | 118796)  |
| Surrogate | 6 | - | p-Terphenyl-d14      | (CAS | ŧ | = | )        |

#### SAMPLE

| SAMPLE   |            |             |             |             |             |             |             | COMPLETION  |
|----------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| NUMBER   | UNITS      | Surrogate 1 | Surrogate 2 | Surrogate 3 | Surrogate 4 | Surrogate 5 | Surrogate 6 | DATE        |
| 92.2744  | 4 %        | 29.96       | 39.16       | 36.82       | 46.52       | 67.18       | 66.34       | 16-Nov-1992 |
| 92.2744  | 4 *        | 39.23       | 46.47       | 44.44       | 56.36       | 81.4        | 83.88       | 16-Nov-1992 |
| 92.2744  | 4 *        | 38.97       | 48.34       | 45.96       | 60.54       | 87.21       | 86.22       | 16-Nov-1992 |
| 92.2744  | 5 %        | 29.46       | 34.24       | 34.48       | 43.6        | 34.18       | 44.52       | 16-Nov-1992 |
| 92.2744  | 5 %        | 29.28       | 35.18       | 33.48       | 41.68       | 41.         | 47.68       | 16-Nov-1992 |
| 92.2744  | 7 *        | 31.32       | 37.32       | 33.64       | 43.16       | 44.9        | 50.4        | 16-Nov-1992 |
| 92.2744  | 3 *        | 58.82       | 61.03       | 61.14       | 68.66       | 85.55       | 80.24       | 16-Nov-1992 |
| 92.27449 | 9 <b>%</b> | 29.31       | 41.18       | 45.92       | 58.02       | 110.9       | 78.54       | 16-Nov-1992 |
| 92.2745  | ) *        | 54.55       | 75.45       | 81.         | 94.6        | 102.2       | 140.2       | 16-Nov-1992 |
| 92.2745  | 1 *        | 24.52       | 38.7        | 37.1        | 53.32       | 80.76       | 95.2        | 16-Nov-1992 |
| 92.2745  | 2 *        | 28.45       | 34.25       | 33.         | 44.9        | 40.85       | 50.4        | 16-Nov-1992 |
| 92.2745  | 3 *        | 46.2        | 54.54       | 48.84       | 61.64       | 63.32       | 75.4        | 16-Nov-1992 |
| 92.2745  | 4 *        | 48.79       | 57.48       | 58.6        | 63.76       | 78.12       | 94.64       | 16-Nov-1992 |
| 92.2745  | 5 %        | 63.3        | 72.77       | 72.26       | 81.92       | 105.59      | 157.96      | 16-Nov-1992 |
| 92.2745  | 5 %        | 56.77       | 61.07       | 62.96       | 68.54       | 82.45       | 82.26       | 16-Nov-1992 |
| 92.2745  | 7 *        | 25.17       | 40.92       | 38.44       | 58.42       | 92.49       | 118.5       | 16-Nov-1992 |
| 92.2745  | 3 *        | 56.41       | 61.88       | 65.1        | 67.66       | 85.01       | 80.6        | 16-Nov-1992 |
| 92.2745  | 9 %        | 49.29       | 56.94       | 54.36       | 65.38       | 83.08       | 82.48       | 16-Nov-1992 |
| 92.2746  | ) *        | 51.93       | 58.11       | 60.8        | 66.64       | 79.62       | 103.2       | 16-Nov-1992 |
| 92.2746  | 1 *        | 31.12       | 36.8        | 36.04       | 45.92       | 48.08       | 52.4        | 16-Nov-1992 |
| 92.27462 | 2 *        | 58.92       | 67.26       | 63.84       | 71.52       | 88.3        | 83.9        | 16-Nov-1992 |
| 92.27463 | 3 *        | 59.82       | 64.33       | 67.36       | 69.62       | 96.12       | 92.22       | 16-Nov-1992 |
| 92.27464 | 1 %        | 37.71       | 54.29       | 49.32       | 81.74       | 108.97      | 101.2       | 16-Nov-1992 |
| 92.27464 | 1 8        | 50.41       | 68.72       | 64.08       | 91.42       | 117.4       | 109.56      | 16-Nov-1992 |
| 92.27464 | 1 8        | 38.5        | 55.73       | 53.96       | 86.84       | 102.29      | 95.42       | 16-Nov-1992 |
| 92.2746  | 5 %        | 35.97       | 43.81       | 44.68       | 52.72       | 79.98       | 70.98       | 16-Nov-1992 |

|          |         |             |                                       | ***         | *****       | EM-9 QUALITY            | ASSURANCE REPO                        | RT **********        | ***                |  |
|----------|---------|-------------|---------------------------------------|-------------|-------------|-------------------------|---------------------------------------|----------------------|--------------------|--|
| SAMPLE   |         |             |                                       |             |             |                         | · · · · · · · · · · · · · · · · · · · | COMPLETION           |                    |  |
| NUMBER   | UNITS   | Surrogate 1 | Surrogate 2                           | Surrogate 3 | Surrogate 4 | Surrogate 5             | Surrogate 6                           | DATE                 |                    |  |
| 92.27466 | *       | 53.33       | 60.35                                 | 63.12       | 65.48       | 84.03                   | 82.74                                 | 16 <b>-N</b> ov-1992 |                    |  |
| 92.27502 | *       | 50.59       | 54.97                                 | 56.56       | 63.16       | 65.05                   | 65.82                                 | 16-Nov-1992          |                    |  |
| 92.27503 | *       | 59.94       | 63.65                                 | 64.26       | 67.5        | 69.2                    | 67.66                                 | 16-Nov-1992          |                    |  |
| 92.27504 | *       | 42.38       | 44.91                                 | 46.94       | 49.54       | 53.34                   | 58.18                                 | 16-Nov-1992          |                    |  |
| 92.27505 | i *     | 48.73       | 53.07                                 | 54.38       | 61.64       | 77.16                   | 81.44                                 | 16-Nov-1992          |                    |  |
| EPA Limi | ts:     |             |                                       |             |             |                         |                                       |                      |                    |  |
| Water    | *       | 21 - 100    | 10 - 94                               | 35 - 114    | 43 - 116    | 10 - 123                | 33 - 141                              |                      |                    |  |
| Soil     | *       | 25 - 121    | 24 - 113                              | 23 - 120    | 30 - 115    | 19 - 122                | 18 - 137                              |                      |                    |  |
| REPORT I | IUMBER: | 15911       | (), 10ml<br>Analys<br>11/18/0<br>Date | arolo<br>12 |             | a Kille-<br>wer<br>2/4C | Section<br>FOR C<br>11/19<br>Dat      | $\frac{1}{2}$        | QA Officer<br><br> |  |

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

| al and a second    | 15 |
|--------------------|----|
| - All and a second |    |
| -                  |    |

| 92.27502 | 117840 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Di-n-octvl phthalate       |
|----------|--------|--------|------|-------|-----|-----|----------|-----------------|----------------------------|
| 92.27502 | 53703  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Dibenzo[a h]anthracene     |
| 92.27502 | 132649 | 2.4    | 0.72 | MG/KG | 3.9 | 0.4 | 11/16/92 | UNDER CONTROL   | Dibenzofuran               |
| 92.27502 | 95501  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | o-Dichlorobenzene (1.2)    |
| 92.27502 | 541731 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | m-Dichlorobenzene (1,3)    |
| 92.27502 | 106467 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | p-Dichlorobenzene (1,4)    |
| 92.27502 | 91941  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 3.3'-Dichlorobenzidine     |
| 92.27502 | 120832 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2.4-Dichlorophenol         |
| 92.27502 | 84662  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Diethyl phthalate          |
| 92.27502 | 131113 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Dimethyl phthalate         |
| 92.27502 | 105679 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2.4-Dimethylphenol         |
| 92.27502 | 51285  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2.4-Dinitronhenol          |
| 92.27502 | 121142 | 3.7    | 1.11 | MG/KG | 5.7 | 0.6 | 11/16/92 | UNDER CONTROL   | 2.4-Dinitrotoluene         |
| 92.27502 | 606202 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2.6-Dinitrotoluene         |
| 92.27502 | 206440 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Fluoranthene               |
| 92.27502 | 86737  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Fluorene                   |
| 92.27502 | 118741 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Hexachlorobenzene          |
| 92.27502 | 87683  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Hexachlorobutadiene        |
| 92.27502 | 77474  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Hexachlorocyclopentadiene  |
| 92.27502 | 67721  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Hexachloroethane           |
| 92.27502 | 193395 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Indeno[1.2.3-cd]pyrene     |
| 92.27502 | 78591  | 3.2    | 0.96 | MG/KG | 4.1 | 0.4 | 11/16/92 | UNDER CONTROL   | Isophorone                 |
| 92.27502 | 534521 | 3.1    | 0.93 | MG/KG | 4.2 | 0.4 | 11/16/92 | UNDER CONTROL   | 2-Methyl-4.6-dinitrophenol |
| 92.27502 | 91576  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2-Methylnaphthalene        |
| 92.27502 | 95487  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2-Methylphenol             |
| 92.27502 | 106445 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 4-Methylphenol             |
| 92.27502 | 91203  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Naphthalene                |
| 92.27502 | 88744  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2-Nitroaniline             |
| 92.27502 | 99092  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 3-Nitroaniline             |
| 92.27502 | 100016 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 4-Nitroaniline             |
| 92.27502 | 98953  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Nitrobenzene               |
| 92.27502 | 88755  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2-Nitrophenol              |
| 92.27502 | 100027 | 2.4    | 0.72 | MG/KG | 4.1 | 0.4 | 11/16/92 | WARNING 2-3 SIG | 4-Nitrophenol              |
| 92.27502 | 621647 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | N-Nitrosodi-n-propylamine  |
| 92.27502 | 62759  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | N-Nitrosodimethylamine     |
| 92.27502 | 86306  | 3.2    | 0.96 | MG/KG | 4.9 | 0.5 | 11/16/92 | UNDER CONTROL   | N-Nitrosodiphenylamine     |
| 92.27502 | 87865  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Pentachlorophenol          |
| 92.27502 | 85018  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | Phenanthrene               |
| 92.27502 | 108952 | 2.4    | 0.72 | MG/KG | 4.6 | 0.5 | 11/16/92 | WARNING 2-3 SIG | Pheno l                    |
| 92.27502 | 129000 | 2.8    | 0.84 | MG/KG | 4.3 | 0.4 | 11/16/92 | UNDER CONTROL   | Pyrene                     |
| 92.27502 | 120821 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 1,2,4-Trichlorobenzene     |
| 92.27502 | 95954  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2,4,5-Trichlorophenol      |
| 92.27502 | 88062  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL   | 2,4,6-Trichlorophenol      |
|          |        |        |      |       |     |     |          |                 | • •                        |

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10 N.

Blind QC Results, Sample # 92.27503 Date Collected: 9/02/92 Date Received: 9/02/92 Date Extracted: 9/14/92 Date Analyzed: 9/24/92

| 92.27503 | 83329   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Acenaphthene                    |
|----------|---------|--------|------|-------|-----|-----|----------|---------------|---------------------------------|
| 92.27503 | 208968  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Acenaphthylene                  |
| 92.27503 | 62533   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Aniline                         |
| 92.27503 | 120127  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Anthracene                      |
| 92.27503 | 103333  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Azobenzene                      |
| 92.27503 | 92875   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | m-Benzidine                     |
| 92.27503 | 56553   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Benzo[a]anthracene              |
| 92.27503 | 50328   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Benzo[a]pyrene                  |
| 92.27503 | 205992  | 3.4    | 1.02 | MG/KG | 4.7 | 0.5 | 11/16/92 | UNDER CONTROL | Benzo[b]fluoranthene            |
| 92.27503 | 191242  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | <pre>Benzo[g,h,i]perylene</pre> |
| 92.27503 | 207089  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Benzo[k]fluoranthene            |
| 92.27503 | 65850   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Benzoic acid                    |
| 92.27503 | 100516  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Benzyl alcohol                  |
| 92.27503 | 111911  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Bis(2-chloroethoxy)methane      |
| 92.27503 | 111444  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Bis(2-chloroethyl)ether         |
| 92.27503 | 108601  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Bis(2-chloroisopropyl)ether     |
| 92.27503 | 117817  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Bis(2-ethylhexyl)phthalate      |
| 92.27503 | 101553  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 4-Bromophenylphenyl ether       |
| 92.27503 | 85687   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Butyl benzyl phthalate          |
| 92.27503 | 59507   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 4-Chloro-3-methylphenol         |
| 92.27503 | 106478  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 4-Chloroaniline                 |
| 92.27503 | 91587   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2-Chloronaphthalene             |
| 92.27503 | 95578   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | o-Chlorophenol                  |
| 92.27503 | 7005723 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 4-Chlorophenylphenyl ether      |
| 92.27503 | 218019  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Chrysene                        |
| 92.27503 | 84742   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Di-n-butyl phthalate            |
| 92.27503 | 117840  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Di-n-octyl phthalate            |
| 92.27503 | 53703   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Dibenzo[a,h]anthracene          |
| 92.27503 | 132649  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Dibenzofuran                    |
| 92.27503 | 95501   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | o-Dichlorobenzene (1,2)         |
| 92.27503 | 541731  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | m-Dichlorobenzene (1,3)         |
| 92.27503 | 106467  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | p-Dichlorobenzene (1,4)         |
| 92.27503 | 91941   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 3,3'-Dichlorobenzidine          |
| 92.27503 | 120832  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2,4-Dichlorophenol              |
| 92.27503 | 84662   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Diethyl phthalate               |
| 92.27503 | 131113  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Dimethyl phthalate              |
| 92.27503 | 105679  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2,4-Dimethylphenol              |
| 92.27503 | 51285   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2,4-Dinitrophenol               |
| 92.27503 | 121142  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2,4-Dinitrotoluene              |
| 92.27503 | 606202  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2,6-Dinitrotoluene              |
| 92.27503 | 206440  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Fluoranthene                    |
| 92.27503 | 86737   | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Fluorene                        |
| 92.2750  | 118741  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Hexachlorobenzene               |
|          |         |        |      |       |     |     |          |               |                                 |

| 92.27503 | 87683  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Hexachlorobutadiene        |
|----------|--------|--------|------|-------|-----|-----|----------|---------------|----------------------------|
| 92.27503 | 77474  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Hexachlorocyclopentadiene  |
| 92.27503 | 67721  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Hexachloroethane           |
| 92.27503 | 193395 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Indeno[1,2,3-cd]pyrene     |
| 92.27503 | 78591  | 3.7    | 1.11 | MG/KG | 4.4 | 0.4 | 11/16/92 | UNDER CONTROL | Isophorone                 |
| 92.27503 | 534521 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2-Methyl-4,6-dinitrophenol |
| 92.27503 | 91576  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2-Methylnaphthalene        |
| 92.27503 | 95487  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2-Methylphenol             |
| 92.27503 | 106445 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 4-Methylphenol             |
| 92.27503 | 91203  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Naphthalene                |
| 92.27503 | 88744  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2-Nitroaniline             |
| 92.27503 | 99092  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 3-Nitroaniline             |
| 92.27503 | 100016 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 4-Nitroaniline             |
| 92.27503 | 98953  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Nitrobenzene               |
| 92.27503 | 88755  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2-Nitrophenol              |
| 92.27503 | 100027 | 2.7    | 0.81 | MG/KG | 4.4 | 0.4 | 11/16/92 | UNDER CONTROL | 4-Nitrophenol              |
| 92.27503 | 621647 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | N-Nitrosodi-n-propylamine  |
| 92.27503 | 62759  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | N-Nitrosodimethylamine     |
| 92.27503 | 86306  | 3.5    | 1.05 | MG/KG | 5.2 | 0.5 | 11/16/92 | UNDER CONTROL | N-Nitrosodiphenylamine     |
| 92.27503 | 87865  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Pentachlorophenol          |
| 92.27503 | 85018  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | Phenanthrene               |
| 92.27503 | 108952 | 2.9    | 0.87 | MG/KG | 4.9 | 0.5 | 11/16/92 | UNDER CONTROL | Phenol                     |
| 92.27503 | 129000 | 3.1    | 0.93 | MG/KG | 4.6 | 0.5 | 11/16/92 | UNDER CONTROL | Pyrene                     |
| 92.27503 | 120821 | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 1,2,4-Trichlorobenzene     |
| 92.27503 | 95954  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2,4,5-Trichlorophenol      |
| 92.27503 | 88062  | < 0.33 |      | MG/KG | 0.0 |     | 11/16/92 | UNDER CONTROL | 2,4,6-Trichlorophenol      |
|          |        |        |      |       |     |     |          |               |                            |

and a

PF-36H-101N 36B-RIN

#### EM-9 SEMIVOLATILE ORGANIC ANALYSIS SUMMARY OF ANALYTICAL RESULTS

100

TO: Philip R. Fresquez FROM: Bridgid Brug, EM-9 Organic section THROUGH: Chris Leibman, EM-9 Organic section leader Anthony Lombardo, EM-9 Organic section leader

REQUEST NUMBER: 13497 MATRIX: Water SUMMARY DATE: November 3, 1992

| SAMPLE<br>ID | TARGET COMPOUNDS<br>FOUND | AMOUNT<br>(ug/L) | LOQ<br>(ug/L) | TICs<br>(Y/N) |
|--------------|---------------------------|------------------|---------------|---------------|
| 92.27324     | (Blank) NONE              | <10              | 10            | N             |
| 92.27468     | Phenol                    | 53               | 10            | Ŷ             |
| 92.27469     | Phenol                    | 19               | 10            | Ŷ             |

LOQ: Limit Of Quantitation TIC: Tentatively Identified Compound

Samples were extracted by liquid-liquid extraction method. Methylene chloride was used as the extraction solvent. Sample extracts were then concentrated to 1.0 ml final volume. Appropriate surrogate standards we added prior to extraction. Analysis was performed by capillary column GC/1. methods. Extraction and analysis methods are consistent with EPA SW-846 methods 3520 and 8270. Analytical column used was a J&W Scientific DB.625 30M by 0.25 mm ID, 0.5 micron film.

Both of the samples were found to contain HSL target compounds (see above). Non-target compounds were not identified or quantitated for this analysis.

Surrogate recoveries were within EPA criteria for all samples. Internal standard responses were within criteria for all analyses.

All analytical hold times were met for this request. If you have any questions regarding this data, please call either Anthony Lombardo or Laura Kelly at 667-5889.

8 1/9/92

### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 SURROGATE RECOVERIES FOR SEMI-VOLATILES IN SOIL TYPE MATRICES

| REQUEST #:         | 13503    |
|--------------------|----------|
| NUMBER OF SAMPLES: | 22       |
| MATRIX             | S        |
| ANALYST:           | AJL      |
| Date:              | 11/09/92 |

SURROGATE RECOVERIES

#### SURROGATE RECOVERIES IN PERCENT (%)

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|                |                     |            |           |        | NITRO-  |           | 2,4,6-    |           |
|----------------|---------------------|------------|-----------|--------|---------|-----------|-----------|-----------|
|                |                     |            | 2-FLUORO- | PHENOL | BENZENE | 2-FLUORO- | TRIBROMO- | TERPHENYL |
|                | SAMPLE NUMBERS      | TYPE       | PHENOL    | (D6)   | (D5)    | BIPHENYL  | PHENOL    | (D14)     |
| 1              | B92.27504           | BLANK      | 42        | 45     | 47      | 50        | 53        | 58        |
| 2              | M92.27444           | MATRIX SPI | к 30      | 39     | 37      | 47        | 67        | 66        |
| 3              | D92.27444           | MATRIX SP- | D 39      | 46     | 44      | 56        | 81        | 84        |
| 4              | \$92.27502          | SAMPLE     | 51        | 55     | 57      | 63        | 65        | 66        |
| 5              | \$92.27444          | SAMPLE     | 39        | 48     | 46      | 61        | 87        | 86        |
| 6              | \$92.27445          | SAMPLE     | 29        | 34     | 34      | 44        | 34        | 45        |
| <b>7</b>       | \$92.27446          | SAMPLE     | 29        | 35     | 33      | 42        | 41        | 48        |
|                | \$92.27447          | SAMPLE     | 31        | 37     | 34      | 43        | 45        | 50        |
| ***** <b>*</b> | \$92.27448          | SAMPLE     | 59        | 61     | 61      | 69        | 86        | 80        |
| 10             | \$92.27449          | SAMPLE     | 29        | 41     | 46      | 58        | 111       | 79        |
| 11             | \$92.27450          | SAMPLE     | 55        | 75     | 81      | 95        | 102       | 140 *     |
| 12             | \$92.27451          | SAMPLE     | 25        | 39     | 37      | 53        | 81        | 95        |
| 13             | \$92.27452          | SAMPLE     | 28        | 34     | 33      | 45        | 41        | 50        |
| 14             | \$92.27453          | SAMPLE     | 46        | 55     | 49      | 62        | 63        | 75        |
| 15             | \$92.27454          | SAMPLE     | 49        | 57     | 59      | 64        | 78        | 95        |
| 16             | \$92.27455          | SAMPLE     | 63        | 73     | 72      | 82        | 106       | 158 *     |
| 17             | \$92.27456          | SAMPLE     | 57        | 61     | 63      | 69        | 82        | 82        |
| 18             | \$92.27457          | SAMPLE     | 25        | 41     | 38      | 58        | 92        | 119       |
| 19             | \$92,27458          | SAMPLE     | 56        | 62     | 65      | 68        | 85        | 81        |
| 20             | \$92.27459          | SAMPLE     | - 49      | 57     | 54      | 65        | 83        | 82        |
| 21             | \$92.27460          | SAMPLE     | 52        | 58     | 61      | 67        | 80        | 103       |
| 22             | \$92.27461          | SAMPLE     | 31        | 37     | 36      | 46        | 48        | 52        |
|                | Average % Surrogate | Recovery   | . 38      | 44     | 44      | 53        | 67        | 66        |
|                | Defined Lower QC Li | mits (%)   | . 23      | 24     | 23      | 30        | 19        | 18        |
|                | Defined Upper QC Li | mits (%)   | . 121     | 113    | 120     | 115       | 122       | 137       |
|                | Observed Lower QC L | imits (%)  | . 29      | 34     | 33      | 42        | 34        | 45        |
|                | Observed Upper QC L | imits (%)  | - 59      | 61     | 61      | 69        | 111       | 86        |

"\*" If % Surrogate Recovery is Followed by a "\*", it is out of QC Limits.

ewed By:

"fer

1/10/92 R

#### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 MATRIX SPIKE RECOVERIES FOR SEMI-VOLATILES

|                               |           | DRY WT/VOL      | AMOUNT SPIK | ED    |             |
|-------------------------------|-----------|-----------------|-------------|-------|-------------|
| REQUEST #:                    | 13503     | (G or L)        | IN UG/KG    |       |             |
| NUMBER OF SAMPLES:            | 22        |                 | ACIDS       | BASES | LOQ (UG/KG) |
| SPIKE ID: (STARTS M OR E)     | M92.27444 | SPIKE 28.730    | 3481        | 1740  | 330         |
| SPIKE DUP ID: (STARTS D OR F) | D92.27444 | SPIKE-DUP28.588 | 3498        | 1749  | 330         |
| RAW DATA WITH:                | 13503     |                 |             |       |             |
| ANALYST:                      | AJL       |                 |             |       |             |

|                            | :     |           | SPIKE SPIKE-DUP |      | LOW. |      | UPP.       |      |
|----------------------------|-------|-----------|-----------------|------|------|------|------------|------|
|                            | SPIKE | SPIKE-DUP | x               | x    |      | REC. | REC.       | RPD  |
|                            | REC.  | REC.      | REC.            | REC. | RPD  | LIM. | LIM.       | LIM. |
| PHENOL                     | 1300  | 1500      | 37%             | 43%  | 14%  | 26   | <b>9</b> 0 | 35   |
| 2-CHLOROPHENOL             | 1300  | 1500      | 37%             | 43%  | 14%  | 25   | 102        | 50   |
| 1,4-DICHLOROBENZENE        | 620   | 810       | 36%             | 46%  | 26%  | 28   | 104        | 27   |
| N-NITROSO-DI-N-PROPYLAMINE | 680   | 940       | 39%*            | 54%  | 32%  | 41   | 126        | 38   |
| 1,2,4-TRICLOROBENZENE      | 750   | 900       | 43%             | 51%  | 18%  | 38   | 107        | 23   |
| 4-CHLORO-3-METHYLPHENOL    | 1700  | 2100      | 49%             | 60%  | 21%  | 26   | 103        | 33   |
| ACENAPHTHENE               | 890   | 1100      | 51%             | 63%  | 21%* | 31   | 137        | 19   |
| 4-NITROPHENOL              | 1600  | 2300      | 46%             | 66%  | 35%  | 11   | 114        | 50   |
| 2,4-DINITROTOLUENE         | 1100  | 1300      | 63%             | 74%  | 16%  | 28   | 89         | 47   |
| PENTACHLOROPHENOL          | 2000  | 2800      | 57%             | 80%  | 33%  | 17   | 109        | 47   |
| PYRENE                     | 1200  | 1600      | 6 <b>9%</b>     | 91%  | 28%  | 35   | 142        | 36   |

"\*" If % Matrix Recovery is Followed by a "\*", it is out of QC Limits.

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Reviewed By:

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### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 SURROGATE RECOVERIES FOR SEMI-VOLATILES IN SOIL TYPE MATRICES

| REQUEST #:         | 13503    |
|--------------------|----------|
| NUMBER OF SAMPLES: | 9        |
| MATRIX             | S        |
| ANALYST:           | AJL      |
| Date:              | 10/30/92 |

SURROGATE RECOVERIES

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#### SURROGATE RECOVERIES IN PERCENT (%)

|    |            |             |            |           |        | NITRO-  |           | 2,4,6-    |           |  |
|----|------------|-------------|------------|-----------|--------|---------|-----------|-----------|-----------|--|
|    |            |             |            | 2-FLUORO- | PHENOL | BENZENE | 2-FLUORO- | TRIBROMO- | TERPHENYL |  |
|    | SAMPLE     | NUMBERS     | TYPE       | PHENOL    | (D6)   | (D5)    | BIPHENYL  | PHENOL    | (D14)     |  |
| 1  |            | 892.27505   | BLANK      | 49        | 53     | 54      | 62        | 77        | 81        |  |
| 2  | 2          | M92.27464   | MATRIX SPI | K 38      | 54     | 49      | 82        | 109       | 101       |  |
| 3  |            | D92.27464   | MATRIX SP- | D 50      | 69     | 64      | 91        | 117       | 110       |  |
| 4  |            | \$92.27462  | SAMPLE     | 59        | 67     | 64      | 72        | 88        | 84        |  |
| 5  |            | \$92.27463  | SAMPLE     | 60        | 64     | 67      | 70        | 96        | 92        |  |
| 6  | 1          | \$92.27464  | SAMPLE     | 39        | 56     | 54      | 87        | 102       | 95        |  |
| 7  | ,          | \$92.27465  | SAMPLE     | 36        | 44     | 45      | 53        | 80        | 71        |  |
|    |            | \$92.27466  | SAMPLE     | 53        | 60     | 63      | 65        | 84        | 83        |  |
| N  |            | \$92.27503  | SAMPLE     | 60        | 64     | 64      | 68        | 69        | 68        |  |
| 10 |            |             |            |           |        |         |           |           |           |  |
| 11 |            |             |            |           |        |         |           |           |           |  |
| 12 |            |             |            |           |        |         |           |           |           |  |
| 13 |            |             |            |           |        |         |           |           |           |  |
| 14 |            |             |            |           |        |         |           |           |           |  |
| 15 |            |             |            |           |        |         |           |           |           |  |
| 16 |            |             |            |           |        |         |           |           |           |  |
| 17 |            |             |            |           |        |         |           |           |           |  |
| 18 |            |             |            |           |        |         |           |           |           |  |
| 19 |            |             |            |           |        |         |           |           |           |  |
| 20 |            |             |            |           |        |         |           |           |           |  |
| 21 |            |             |            |           |        |         |           |           |           |  |
| 22 |            |             |            |           |        |         |           |           |           |  |
|    |            |             |            |           |        |         |           |           |           |  |
|    |            | _           |            |           |        |         | _         |           |           |  |
|    | Average %  | Surrogate   | Recovery   | . 49      | 59     | 58      | 72        | 91        | 87        |  |
|    | Defined Lo | ower QC Lir | nits (%)   | . 23      | 24     | 23      | 30        | 19        | 18        |  |
|    | Defined Up | oper QC Lin | nits (%)   | . 121     | 113    | 120     | 115       | 122       | 137       |  |
|    | Observed L | ower QC L   | imits (%)  | . 36      | 44     | 45      | 53        | 69        | 68        |  |
|    | Observed L | Jpper QC Li | imits (%)  | . 60      | 69     | 67      | 91        | 117       | 110       |  |

"\*" If % Surrogate Recovery is Followed by a "\*", it is out of QC Limits.

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#### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 MATRIX SPIKE RECOVERIES FOR SEMI-VOLATILES

|                               |           | DRY WT/VOL      | AMOUNT SPI | ŒD    |             |
|-------------------------------|-----------|-----------------|------------|-------|-------------|
| REQUEST #:                    | 13503     | (G or L)        | IN UG/KG   |       |             |
| NUMBER OF SAMPLES:            | 9         |                 | ACIDS      | BASES | LOQ (UG/KG) |
| SPIKE ID: (STARTS M OR E)     | M92.27464 | SPIKE 27.144    | 3684       | 1842  | 330         |
| SPIKE DUP ID: (STARTS D OR F) | D92.27464 | SPIKE-DUP27.252 | 3669       | 1835  | 330         |
| RAW DATA WITH:                |           |                 |            |       |             |
| ANALYST:                      | AJL       |                 |            |       |             |

|                            |       | S         | PIKE        | SPIKE-DUP |      | LOW. | UPP. |      |
|----------------------------|-------|-----------|-------------|-----------|------|------|------|------|
|                            | SPIKE | SPIKE-DUP | x           | x         |      | REC. | REC. | RPD  |
|                            | REC.  | REC.      | REC.        | REC.      | RPD  | LIM. | LIM. | LIM. |
| PHENOL                     | 1900  | 2300      | 52%         | 63%       | 19%  | 26   | 90   | 35   |
| 2-CHLOROPHENOL             | 1800  | 2400      | 49%         | 65%       | 29%  | 25   | 102  | 50   |
| 1,4-DICHLOROBENZENE        | 830   | 1100      | 45 <b>%</b> | 60%       | 28%* | 28   | 104  | 27   |
| N-NITROSO-DI-N-PROPYLAMINE | 920   | 1200      | 50%         | 65%       | 27%  | 41   | 126  | 38   |
| 1,2,4-TRICLOROBENZENE      | 1000  | 1300      | 54%         | 71%       | 26%* | 38   | 107  | 23   |
| 4-CHLORO-3-METHYLPHENOL    | 2800  | 3000      | 76%         | 82%       | 7%   | 26   | 103  | 33   |
| ACENAPHTHENE               | 1400  | 1500      | 76%         | 82%       | 7%   | 31   | 137  | 19   |
| 4-NITROPHENOL              | 2100  | 2600      | 57%         | 71%       | 22%  | 11   | 114  | 50   |
| 2,4-DINITROTOLUENE         | 1200  | 1300      | 65%         | 71%       | 8%   | 28   | 89   | 47   |
| PENTACHLOROPHENOL          | 2700  | 2900      | 73%         | 79%       | 8%   | 17   | 109  | 47   |
| PYRENE                     | 2000  | 2000      | 109%        | 109%      | 0%   | 35   | 142  | 36   |

"\*" If % Matrix Recovery is Followed by a "\*", it is out of QC Limits.

Reviewed By:

gr illager

### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 SURROGATE RECOVERIES FOR SEMI-VOLATILES IN WATER

| REQUEST #:         | 13497    |
|--------------------|----------|
| NUMBER OF SAMPLES: | 6        |
| MATRIX             | W        |
| ANALYST:           | AJL      |
| Date:              | 11/03/92 |

SURROGATE RECOVERIES

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### SURROGATE RECOVERIES IN PERCENT (%)

|     | SAMPLE     | NUMBERS    | TYPE               | 2-F<br>PH | LUORO-<br>ENOL | •     | PHENOL<br>(D6) |   | NITRO-<br>BENZENE<br>(D5) | 2-FLUORO-<br>BIPHENYL | 2,4,6-<br>TRIBROMO-<br>PHENOL | TERPHENYI<br>(D14) | L    |
|-----|------------|------------|--------------------|-----------|----------------|-------|----------------|---|---------------------------|-----------------------|-------------------------------|--------------------|------|
|     | 1          | 892.27324  | BLANK              |           | 40             | • • • | 43             |   | 51                        | <br>52                | <br>60                        | <br>70             | •••• |
|     | 2          | \$92.27323 | SAMPLE             |           | 44             |       | 52             |   | 50                        | 55                    | 94                            | 72                 |      |
|     | 3          | M92.26589  | MATRIX SP          | ΡIK       | 0              | *     | 3              | * | 3 *                       | 20 1                  | · 52                          | 54                 |      |
|     | 4          | D92.26589  | MATRIX SP          | P-D       | 21             | *     | 25             |   | 34 *                      | 37 1                  | · 35                          | 54                 |      |
|     | 5          | \$92.27468 | SAMPLE             |           | 42             |       | 43             |   | 62                        | 64                    | 62                            | 54                 |      |
|     | 6          | \$92.27469 | SAMPLE             |           | 48             |       | 52             |   | 59                        | 63                    | 71                            | 20 *               |      |
|     | 7          |            |                    |           |                |       |                |   |                           |                       |                               | 29 -               |      |
| ~ 1 | 8          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
|     | 9          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| w   | 4          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
|     | ו<br>כ     |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 1   | 2          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 4   | 3<br>/     |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 1   | +          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
|     | ,          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 10  | -          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| . 1 |            |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 14  | 3          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 19  | ,          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 20  | 1          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 21  | 1          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
| 22  | 2          |            |                    |           |                |       |                |   |                           |                       |                               |                    |      |
|     | Average %  | Surrogate  | Recovery.          | ••        | 32             |       | 36             |   | 43                        | 48                    | 62                            | 55                 |      |
|     | Defined Lo | wer QC Lim | its (%)            |           | 21             |       | 10             |   | 35                        | 43                    | 10                            | 33                 |      |
|     | Defined Up | per QC Lim | its (%)            | ••        | 100            |       | 94             |   | 114                       | 116                   | 123                           | 141                |      |
|     | Observed L | ower QC Li | mits <b>(%).</b> . | ••        | 0              |       | 3              |   | 3                         | 20                    | 35                            | 29                 |      |
|     | Observed U | pper QC Li | mits (%)           | •         | 48             |       | 52             |   | 62                        | 64                    | 94                            | 72                 |      |

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"\*" If % Surrogate Recovery is Followed by a "\*", it is out of QC Limits.

And a viewed By:

PK 2/2/92

#### LOS ALAMOS NATIONAL LABORATORY HEALTH, SAFETY AND ENVIRONMENT DIVISION HSE-9 MATRIX SPIKE RECOVERIES FOR SEMI-VOLATILES

|                               |           | DRY WT/VOL |   | AMOUNT SPIK | ED (50 OR | 100 ug/ml)  |
|-------------------------------|-----------|------------|---|-------------|-----------|-------------|
| REQUEST #:                    | 13497     | (G or L)   |   | IN UG/KG o  | r UG/L    |             |
| NUMBER OF SAMPLES:            | 6         |            |   | ACIDS       | BASES     | LOQ (UG/KG) |
| SPIKE ID: (STARTS M OR E)     | M92.26589 | SPIKE      | 1 | 100         | 50        | 10          |
| SPIKE DUP ID: (STARTS D OR F) | D92.26589 | SP1KE-DUP  | 1 | 100         | 50        | 10          |
| RAW DATA WITH:                | 13435     |            |   |             |           |             |
| ANALYST:                      | AJL       |            |   |             |           |             |

|                            |                                                                                                        |           | SPIKE       | SPIKE-DUP   |             | LOW. | UPP.       |      |
|----------------------------|--------------------------------------------------------------------------------------------------------|-----------|-------------|-------------|-------------|------|------------|------|
|                            | SPIKE                                                                                                  | SPIKE-DUP | x           | x           |             | REC. | REC.       | RPD  |
|                            | REC.                                                                                                   | REC.      | REC.        | REC.        | RPD         | LIM. | LIM.       | LIM. |
| PHENOL                     | <l09< td=""><td>27</td><td>0%*</td><td>27%</td><td>200%*</td><td>12</td><td>89</td><td>42</td></l09<>  | 27        | 0%*         | 27%         | 200%*       | 12   | 89         | 42   |
| 2-CHLOROPHENOL             | <l09< td=""><td>29</td><td>0%*</td><td>29%</td><td>200%*</td><td>27</td><td>123</td><td>40</td></l09<> | 29        | 0%*         | 29%         | 200%*       | 27   | 123        | 40   |
| 1,4-DICHLOROBENZENE        | <l09< td=""><td>16</td><td>0%*</td><td>32**</td><td>200%*</td><td>36</td><td>97</td><td>28</td></l09<> | 16        | 0%*         | 32**        | 200%*       | 36   | 97         | 28   |
| N-NITROSO-DI-N-PROPYLAMINE | 15                                                                                                     | 23        | 30%*        | 46X         | 42%*        | 41   | 116        | 38   |
| 1,2,4-TRICLOROBENZENE      | <l09< td=""><td>18</td><td>0%*</td><td>36%*</td><td>200%*</td><td>39</td><td>98</td><td>28</td></l09<> | 18        | 0%*         | 36%*        | 200%*       | 39   | 98         | 28   |
| 4-CHLORO-3-METHYLPHENOL    | 42                                                                                                     | 36        | 42%         | 36%         | 15 <b>%</b> | 23   | 97         | 42   |
| ACENAPHTHENE               | 20                                                                                                     | 23        | 40%*        | 46 <b>X</b> | 14%         | 46   | 118        | 31   |
| 4-NITROPHENOL              | 56                                                                                                     | 35        | 56%         | 35%         | 46%         | 10   | <b>8</b> 0 | 50   |
| 2,4-DINITROTOLUENE         | 26                                                                                                     | 25        | 52%         | 50%         | 4%          | 24   | 96         | 38   |
| PENTACHLOROPHENOL          | 65                                                                                                     | 43        | 65 <b>X</b> | 43%         | 41%         | 9    | 103        | 50   |
| PYRENE                     | 31                                                                                                     | 34        | 62%         | 68%         | 9%          | 26   | 127        | 31   |

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"\*" If % Matrix Recovery is Followed by a "\*", it is out of QC Limits.

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| <u></u>            |                                                                                                                                          |          | **          | *****            | ** EM- | 9 ANALYTICAL REP | ORT ****      | ****                                         |  |  |  |  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------------------|--------|------------------|---------------|----------------------------------------------|--|--|--|--|
|                    |                                                                                                                                          |          | E           | PA SEMIVOLATILES | i Pre  | epared by: LAK   | c             | on 2-Dec-1992                                |  |  |  |  |
| REQUEST NUM        | BER: 13497                                                                                                                               | 7 MATRI  | X: W ANAL   | YST: ANTHONY LO  | MBARDO | Ρ                | ROGRAM CODE:  | : M106 NOTEBOOK: R7336 PAGE: 121             |  |  |  |  |
| OWNER: Phi         | lip R. Fres                                                                                                                              | squez    | GROUP: EM-8 | MAIL-STOP:       | K490 I | PHONE: 7-0815    | TECHNIQUE     | E: GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD |  |  |  |  |
| <u>Customer Sa</u> | Customer Sample Results, Sample # 92.27468 Date Collected: 8/31/92 Date Received: 9/02/92 Date Extracted: 9/02/92 Date Analyzed: 9/23/92 |          |             |                  |        |                  |               |                                              |  |  |  |  |
| CUSTOMED           | SAMPLE                                                                                                                                   |          | ANAL VTTCAL | ΑΝΔΙ ΥΤΤΛΔΙ      |        | COMPLETION       |               | COMPONING                                    |  |  |  |  |
| NUMBER             | NUMBER                                                                                                                                   | ANALYSIS | RESULT      | UNCERTAINTY      | UNITS  | DATE             | COMMENT       | NAME                                         |  |  |  |  |
|                    |                                                                                                                                          |          |             | ·····•           |        | _                |               |                                              |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 83329    | < 10.       |                  | UG/L   | 12/02/92         |               | Acenaphthene                                 |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 208968   | < 10.       |                  | UG/L   | 12/02/92         |               | Acenaphthylene                               |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 62533    | < 10.       |                  | UG/L   | 12/02/92         | 92 Aniline    |                                              |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 120127   | < 10.       |                  | UG/L   | 12/02/92         | 2 Anthracene  |                                              |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 103333   | < 10.       |                  | UG/L   | 12/02/92         | J2 Azobenzene |                                              |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 92875    | < 10.       |                  | UG/L   | 12/02/92         |               | m-Benzidine                                  |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 56553    | < 10.       |                  | UG/L   | 12/02/92         |               | Benzo[a]anthracene                           |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 50328    | < 10.       |                  | UG/L   | 12/02/92         |               | Benzo[a]pyrene                               |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 205992   | < 10.       |                  | UG/L   | 12/02/92         |               | Benzo[b]fluoranthene                         |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 191242   | < 10.       |                  | UG/L   | 12/02/92         |               | Benzo[g,h,i]perylene                         |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 207089   | < 10.       |                  | UG/L   | 12/02/92         |               | Benzo[k]fluoranthene                         |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 65850    | < 10.       |                  | UG/L   | 12/02/92         |               | Benzoic acid                                 |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 100516   | < 10.       |                  | UG/L   | 12/02/92         |               | Benzyl alcohol                               |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 111911   | < 10.       |                  | UG/L   | 12/02/92         |               | Bis(2-chloroethoxy)methane                   |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 111444   | < 10.       |                  | UG/L   | 12/02/92         |               | Bis(2-chloroethyl)ether                      |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 108601   | < 10.       |                  | UG/L   | 12/02/92         |               | Bis(2-chloroisopropyl)ether                  |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 117817   | < 10.       |                  | UG/L   | 12/02/92         |               | Bis(2-ethylhexyl)phthalate                   |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 101553   | < 10.       |                  | UG/L   | 12/02/92         |               | 4-Bromophenylphenyl ether                    |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 85687    | < 10.       |                  | UG/L   | 12/02/92         |               | Butyl benzyl phthalate                       |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 59507    | < 10.       |                  | UG/L   | 12/02/92         |               | 4-Chloro-3-methylphenol                      |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 106478   | < 10.       |                  | UG/L   | 12/02/92         |               | 4-Chloroaniline                              |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 91587    | < 10.       |                  | UG/L   | 12/02/92         |               | 2-Chloronaphthalene                          |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 95578    | < 10.       |                  | UG/L   | 12/02/92         |               | o-Chlorophenol                               |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 7005723  | < 10.       |                  | UG/L   | 12/02/92         |               | 4-Chlorophenylphenyl ether                   |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 218019   | < 10.       |                  | UG/L   | 12/02/92         |               | Chrysene                                     |  |  |  |  |
| PF-36A-RIN         | 92.27468                                                                                                                                 | 84742    | < 10.       |                  | UG/L   | 12/02/92         |               | Di-n-butyl phthalate                         |  |  |  |  |

#### REPORT NUMBER: 16146

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|            |          |          | ***        | *****       | *** EM    | -9 ANALYTICAL RI | EPORT * | ******                     |
|------------|----------|----------|------------|-------------|-----------|------------------|---------|----------------------------|
| CUSTOMER   | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |           | COMPLETION       |         | COMPOUND                   |
| NUMBER     | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS     | DATE             | COMMENT | NAME                       |
| PF-36A-RIN | 92.27468 | 117840   | < 10.      |             | UG/L      | 12/02/92         |         | Di-n-octyl phthalate       |
| PF-36A-RIN | 92.27468 | 53703    | < 10.      |             | UG/L      | 12/02/92         |         | Dibenzo[a.h]antbracene     |
| PF-36A-RIN | 92.27468 | 132649   | < 10.      |             | UG/L      | 12/02/92         |         | Dibenzofuran               |
| PF-36A-RIN | 92.27468 | 95501    | < 10.      |             | UG/L      | 12/02/92         |         | o-Dichlorobenzene (1.2)    |
| PF-36A-RIN | 92.27468 | 541731   | < 10.      |             | UG/L      | 12/02/92         |         | m-Dichlorobenzene (1.3)    |
| PF-36A-RIN | 92.27468 | 106467   | < 10.      |             | UG/L      | 12/02/92         |         | p-Dichlorobenzene (1,4)    |
| PF-36A-RIN | 92.27468 | 91941    | < 10.      |             | UG/L      | 12/02/92         |         | 3.3'-Dichlorobenzidine     |
| PF-36A-RIN | 92.27468 | 120832   | < 10.      |             | UG/L      | 12/02/92         |         | 2.4-Dichlorophenol         |
| PF-36A-RIN | 92.27468 | 84662    | < 10.      |             | UG/L      | 12/02/92         |         | Diethyl phthalate          |
| PF-36A-RIN | 92,27468 | 131113   | < 10.      |             | UG/L      | 12/02/92         |         | Dimethyl phthalate         |
| PF-36A-RIN | 92.27468 | 105679   | < 10.      |             | UG/L      | 12/02/92         |         | 2.4-Dimethylphenol         |
| PF-36A-RIN | 92.27468 | 51285    | < 10.      |             | UG/L      | 12/02/92         |         | 2.4-Dinitrophenol          |
| PF-36A-RIN | 92.27468 | 121142   | < 10.      |             | UG/L      | 12/02/92         |         | 2.4-Dinitrotoluene         |
| PF-36A-RIN | 92.27468 | 606202   | < 10.      |             | ,<br>UG/L | 12/02/92         |         | 2,6-Dinitrotoluene         |
| PF-36A-RIN | 92.27468 | 206440   | < 10.      |             | ,<br>UG/L | 12/02/92         |         | Fluoranthene               |
| PF-36A-RIN | 92.27468 | 86737    | < 10.      |             | ,<br>UG/L | 12/02/92         |         | Fluorene                   |
| PF-36A-RIN | 92.27468 | 118741   | < 10.      |             | UG/L      | 12/02/92         |         | Hexachlorobenzene          |
| PF-36A-RIN | 92.27468 | 87683    | < 10.      |             | UG/L      | 12/02/92         |         | Hexachlorobutadiene        |
| PF-36A-RIN | 92.27468 | 77474    | < 10.      |             | UG/L      | 12/02/92         |         | Hexachlorocyclopentadiene  |
| PF-36A-RIN | 92.27468 | 67721    | < 10.      |             | UG/L      | 12/02/92         |         | Hexachloroethane           |
| PF-36A-RIN | 92.27468 | 193395   | < 10.      |             | UG/L      | 12/02/92         |         | Indeno[1,2,3-cd]pyrene     |
| PF-36A-RIN | 92.27468 | 78591    | < 10.      |             | UG/L      | 12/02/92         |         | Isophorone                 |
| PF-36A-RIN | 92.27468 | 534521   | < 10.      |             | UG/L      | 12/02/92         |         | 2-Methyl-4,6-dinitrophenol |
| PF-36A-RIN | 92.27468 | 91576    | < 10.      |             | UG/L      | 12/02/92         |         | 2-Methylnaphthalene        |
| PF-36A-RIN | 92.27468 | 95487    | < 10.      |             | UG/L      | 12/02/92         |         | 2-Methylphenol             |
| PF-36A-RIN | 92.27468 | 106445   | < 10.      |             | UG/L      | 12/02/92         |         | 4-Methylphenol             |
| PF-36A-RIN | 92.27468 | 91203    | < 10.      |             | UG/L      | 12/02/92         |         | Naphthalene                |
| PF-36A-RIN | 92.27468 | 88744    | < 10.      |             | UG/L      | 12/02/92         |         | 2-Nitroaniline             |
| PF-36A-RIN | 92.27468 | 99092    | < 10.      |             | UG/L      | 12/02/92         |         | 3-Nitroaniline             |
| PF-36A-RIN | 92.27468 | 100016   | < 10.      |             | UG/L      | 12/02/92         |         | 4-Nitroaniline             |
| PF-36A-RIN | 92.27468 | 98953    | < 10.      |             | UG/L      | 12/02/92         |         | Nitrobenzene               |
| PF-36A-RIN | 92.27468 | 88755    | < 10.      |             | UG/L      | 12/02/92         |         | 2-Nitrophenol              |
| PF-36A-RIN | 92.27468 | 100027   | < 10.      |             | UG/L      | 12/02/92         |         | 4-Nitrophenol              |
| PF-36A-RIN | 92.27468 | 621647   | < 10.      |             | UG/L      | 12/02/92         |         | N-Nitrosodi-n-propylamine  |
| PF-36A-RIN | 92.27468 | 62759    | < 10.      |             | UG/L      | 12/02/92         |         | N-Nitrosodimethylamine     |
| PF-36A-    | 92.27468 | 86306    | < 10.      |             | UG/L      | (02/92           |         | N-Nitrosodiphenylamine     |



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|----------------------------------------|----------|----------|------------|-------------|-------|------------|---------|------------------------|--|--|--|
| CUSTOMER                               | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND               |  |  |  |
| NUMBER                                 | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                   |  |  |  |
| PF-36A-RIN                             | 92.27468 | 87865    | < 10.      |             | UG/L  | 12/02/92   |         | Pentachlorophenol      |  |  |  |
| PF-36A-RIN                             | 92.27468 | 85018    | < 10.      |             | UG/L  | 12/02/92   |         | Phenanthrene           |  |  |  |
| PF-36A-RIN                             | 92.27468 | 108952   | 53.        | 15.9        | UG/L  | 12/02/92   |         | Pheno l                |  |  |  |
| PF-36A-RIN                             | 92.27468 | 129000   | < 10.      |             | UG/L  | 12/02/92   |         | Pyrene                 |  |  |  |
| PF-36A-RIN                             | 92.27468 | 120821   | < 10.      |             | UG/L  | 12/02/92   |         | 1,2,4-Trichlorobenzene |  |  |  |
| PF-36A-RIN                             | 92.27468 | 95954    | < 10.      |             | UG/L  | 12/02/92   |         | 2,4,5-Trichlorophenol  |  |  |  |
| PF-36A-RIN                             | 92.27468 | 88062    | < 10.      |             | UG/L  | 12/02/92   |         | 2,4,6-Trichlorophenol  |  |  |  |

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Tentatively Identified Compounds in Customer Sample # 92.27468

none

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|                    |                    |             | **1         | ******           | ** EM-9   | 9 ANALYTICAL REPO | )RT ****     | *****           |              |                |          |
|--------------------|--------------------|-------------|-------------|------------------|-----------|-------------------|--------------|-----------------|--------------|----------------|----------|
|                    |                    |             | EI          | PA SEMIVOLATILES | Pre       | pared by: LAK     | 01           | n 2-Dec-1992    |              |                |          |
| REQUEST NUM        | <b>HBER: 13497</b> | MATRIX      | (: W ANAL)  | YST: ANTHONY LO  | MBARDO    | PI                | ROGRAM CODE: | M106 NOTEBO     | DK: R7336    | PAGE: 121      |          |
| OWNER: Phi         | ilip R. Fres       | quez        | GROUP: EM-8 | MAIL-STOP:       | K490 P    | HONE: 7-0815      | TECHNIQUE    | : GCEC ANAL     | YTICAL PROCE | DURE: EPA SW-8 | 46 3RD   |
| <u>Customer Sa</u> | ample Result       | s, Sample # | 92.27469    | Date Collected:  | 8/31/92   | Date Received:    | 9/02/92      | Date Extracted: | 9/02/92      | Date Analyzed: | 9/23/92  |
| CUSTOMER           | SAMPLE             |             | ANALYTICAL  | ANALYTICAL       |           | COMPLETION        |              | COMPOUND        |              |                |          |
| NUMBER             | NUMBER             | ANALYSIS    | RESULT      | UNCERTAINTY      | UNITS     | DATE              | COMMENT      | NAME            |              |                |          |
| PE-36B-RIN         | 92,27469           | 83329       | < 10.       |                  | UG/L      | 12/02/92          |              | Acenaphthene    |              |                |          |
| PF-36B-RIN         | 92.27469           | 208968      | < 10.       |                  | ,<br>UG/L | 12/02/92          |              | Acenaphthyle    | ne           |                |          |
| PF-36B-RIN         | 92.27469           | 62533       | < 10.       |                  | UG/L      | 12/02/92          |              | Aniline         |              |                | <u>ь</u> |
| PF-36B-RIN         | 92.27469           | 120127      | < 10.       |                  | UG/L      | 12/02/92          |              | Anthracene      |              |                |          |
| PF-36B-RIN         | 92.27469           | 103333      | < 10.       |                  | UG/L      | 12/02/92          |              | Azobenzene      |              |                |          |
| PF-36B-RIN         | 92.27469           | 92875       | < 10.       |                  | UG/L      | 12/02/92          |              | m-Benzidine     |              |                |          |
| PF-36B-RIN         | 92.27469           | 56553       | < 10.       |                  | UG/L      | 12/02/92          |              | Benzo[a]anth    | racene       |                |          |
| PF-36B-RIN         | 92.27469           | 50328       | < 10.       |                  | UG/L      | 12/02/92          |              | Benzo[a]pyre    | ne           |                |          |
| PF-36B-RIN         | 92.27469           | 205992      | < 10.       |                  | UG/L      | 12/02/92          |              | Benzo[b]fluo    | ranthene     |                |          |
| PF-36B-RIN         | 92.27469           | 191242      | < 10.       |                  | UG/L      | 12/02/92          |              | Benzo[g,h,i]    | perylene     |                |          |
| PF-36B-RIN         | 92.27469           | 207089      | < 10.       |                  | UG/L      | 12/02/92          |              | Benzo[k]fluo    | ranthene     |                |          |
| PF-36B-RIN         | 92.27469           | 65850       | < 10.       |                  | UG/L      | 12/02/92          |              | Benzoic acid    |              |                |          |
| PF-36B-RIN         | 92.27469           | 100516      | < 10.       |                  | UG/L      | 12/02/92          |              | Benzyl alcoh    | ol           | 1              |          |
| PF-36B-RIN         | 92.27469           | 111911      | < 10.       |                  | UG/L      | 12/02/92          |              | Bis(2-chloro    | ethoxy)metha | ine            |          |
| PF-36B-RIN         | 92.27469           | 111444      | < 10.       |                  | UG/L      | 12/02/92          |              | Bis(2-chloro    | ethyl)ether  |                |          |
| PF-36B-RIN         | 92.27469           | 108601      | < 10.       |                  | UG/L      | 12/02/92          |              | Bis(2-chloro    | isopropyl)et | her            |          |
| PF-36B-RIN         | 92.27469           | 117817      | < 10.       |                  | UG/L      | 12/02/92          |              | Bis(2-ethylh    | exyl)phthala | ite            |          |
| PF-36B-RIN         | 92.27469           | 101553      | < 10.       |                  | UG/L      | 12/02/92          |              | 4-Bromopheny    | lphenyl ethe | r              |          |
| PF-36B-RIN         | 92.27469           | 85687       | < 10.       |                  | UG/L      | 12/02/92          |              | Butyl benzyl    | phthalate    |                |          |
| PF-36B-RIN         | 92.27469           | 59507       | < 10.       |                  | UG/L      | 12/02/92          |              | 4-Chloro-3-m    | ethylphenol  |                |          |
| PF-36B-RIN         | 92.27469           | 106478      | < 10.       |                  | UG/L      | 12/02/92          |              | 4-Chloroanii    | ine          |                |          |
| PF-36B-RIN         | 92.27469           | 91587       | < 10.       |                  | UG/L      | 12/02/92          |              | 2-Chloronaph    | thalene      |                |          |
| PF-36B-RIN         | 92.27469           | 95578       | < 10.       |                  | UG/L      | 12/02/92          |              | o-Chloropher    | io l         |                |          |
| PF-36B-RIN         | 92.27469           | 7005723     | < 10.       |                  | UG/L      | 12/02/92          |              | 4-Chlorophen    | ylphenyl eth | ier            |          |
| PF-36B-RIN         | 92.27469           | 218019      | < 10.       |                  | UG/L      | 12/02/92          |              | Chrysene        |              |                |          |
| PF-36B-'           | 92.27469           | 84742       | < 10.       |                  | UG/L      | (02/92            |              | Di-n-butyl p    | hthalate     |                |          |

#### REPORT NUMBER: 16146

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PF-36B-RIN 92.27469

86306

< 10.

|                    |                  |          | ***                  | *****                     | *** EN | 1-9 ANALYTICAL R   | EPORT * | **********                  |  |
|--------------------|------------------|----------|----------------------|---------------------------|--------|--------------------|---------|-----------------------------|--|
| CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYSIS | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS  | COMPLETION<br>DATE | COMMENT | COMPOUND                    |  |
|                    |                  |          |                      |                           |        |                    |         |                             |  |
| PF-36B-RIN         | 92.27469         | 117840   | < 10.                |                           | UG/L   | 12/02/92           |         | Di-n-octyl phthalate        |  |
| PF-36B-RIN         | 92.27469         | 53703    | < 10.                |                           | UG/L   | 12/02/92           |         | Dibenzo[a,h]anthracene      |  |
| PF-36B-RIN         | 92.27469         | 132649   | < 10.                |                           | UG/L   | 12/02/92           |         | Dibenzofuran                |  |
| PF-36B-RIN         | 92.27469         | 95501    | < 10.                |                           | UG/L   | 12/02/92           |         | o-Dichlorobenzene (1,2)     |  |
| PF-36B-RIN         | 92.27469         | 541731   | < 10.                |                           | UG/L   | 12/02/92           |         | m-Dichlorobenzene (1,3)     |  |
| PF-36B-RIN         | 92.27469         | 106467   | < 10.                |                           | UG/L   | 12/02/92           |         | p-Dichlorobenzene (1,4)     |  |
| PF-36B-RIN         | 92.27469         | 91941    | < 10.                |                           | UG/L   | 12/02/92           |         | 3,3'-Dichlorobenzidine      |  |
| PF-36B-RIN         | 92.27469         | 120832   | < 10.                |                           | UG/L   | 12/02/92           |         | 2,4-Dichlorophenol          |  |
| PF-36B-RIN         | 92.27469         | 84662    | < 10.                |                           | UG/L   | 12/02/92           |         | Diethyl phthalate           |  |
| PF-36B-RIN         | 92.27469         | 131113   | < 10.                |                           | UG/L   | 12/02/92           |         | Dimethyl phthalate          |  |
| PF-36B-RIN         | 92.27469         | 105679   | < 10.                |                           | UG/L   | 12/02/92           |         | 2,4-Dimethylphenol          |  |
| PF-36B-RIN         | 92.27469         | 51285    | < 10.                |                           | UG/L   | 12/02/92           |         | 2,4-Dinitrophenol           |  |
| PF-36B-RIN         | 92.27469         | 121142   | < 10.                |                           | UG/L   | 12/02/92           |         | 2,4-Dinitrotoluene          |  |
| PF-36B-RIN         | 92.27469         | 606202   | < 10.                |                           | UG/L   | 12/02/92           |         | 2,6-Dinitrotoluene          |  |
| PF-36B-RIN         | 92.27469         | 206440   | < 10.                |                           | UG/L   | 12/02/92           |         | Fluoranthene                |  |
| PF-36B-RIN         | 92.27469         | 86737    | < 10.                |                           | UG/L   | 12/02/92           |         | Fluorene                    |  |
| PF-36B-RIN         | 92.27469         | 118741   | < 10.                |                           | UG/L   | 12/02/92           |         | Hexach lorobenzene          |  |
| PF-36B-RIN         | 92.27469         | 87683    | < 10.                |                           | UG/L   | 12/02/92           |         | Hexach lorobutadiene        |  |
| PF-36B-RIN         | 92.27469         | 77474    | < 10.                |                           | UG/L   | 12/02/92           |         | Hexach lorocyc lopentadiene |  |
| PF-36B-RIN         | 92.27469         | 67721    | < 10.                |                           | UG/L   | 12/02/92           |         | Hexachloroethane            |  |
| PF-36B-RIN         | 92.27469         | 193395   | < 10.                |                           | UG/L   | 12/02/92           |         | Indeno[1,2,3-cd]pyrene      |  |
| PF-36B-RIN         | 92.27469         | 78591    | < 10.                |                           | UG/L   | 12/02/92           |         | Isophorone                  |  |
| PF-36B-RIN         | 92.27469         | 534521   | < 10.                |                           | UG/L   | 12/02/92           |         | 2-Methyl-4,6-dinitrophenol  |  |
| PF-36B-RIN         | 92.27469         | 91576    | < 10.                |                           | UG/L   | 12/02/92           |         | 2-Methylnaphthalene         |  |
| PF-36B-RIN         | 92.27469         | 95487    | < 10.                |                           | UG/L   | 12/02/92           |         | 2-Methylphenol              |  |
| PF-36B-RIN         | 92.27469         | 106445   | < 10.                |                           | UG/L   | 12/02/92           |         | 4-Methylphenol              |  |
| PF-36B-RIN         | 92.27469         | 91203    | < 10.                |                           | UG/L   | 12/02/92           |         | Naphthalene                 |  |
| PF-36B-RIN         | 92.27469         | 88744    | < 10.                |                           | UG/L   | 12/02/92           |         | 2-Nitroaniline              |  |
| PF-36B-RIN         | 92.27469         | 99092    | < 10.                |                           | UG/L   | 12/02/92           |         | 3-Nitroaniline              |  |
| PF-36B-RIN         | 92.27469         | 100016   | < 10.                |                           | UG/L   | 12/02/92           |         | 4-Nitroaniline              |  |
| PF-36B-RIN         | 92.27469         | 98953    | < 10.                |                           | UG/L   | 12/02/92           |         | Nitrobenzene                |  |
| PF-36B-RIN         | 92.27469         | 88755    | < 10.                |                           | UG/L   | 12/02/92           |         | 2-Nitrophenol               |  |
| PF-36B-RIN         | 92.27469         | 100027   | < 10.                |                           | UG/L   | 12/02/92           |         | 4-Nitrophenol               |  |
| PF-36B-RIN         | 92.27469         | 621647   | < 10.                |                           | UG/L   | 12/02/92           |         | N-Nitrosodi-n-propylamine   |  |
| PF-36B-RIN         | 92.27469         | 62759    | < 10.                |                           | UG/L   | 12/02/92           |         | N-Nitrosodimethylamine      |  |

12/02/92

N-Nitrosodiphenylamine

UG/L

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|------------|----------------------------------------|----------|------------|-------------|-------|------------|---------|----------------------------|--|--|--|--|
| CUSTOMER   | SAMPLE                                 |          | ANALYTICAL | ANALYTICAL  |       | COMPLETION |         | COMPOUND                   |  |  |  |  |
| NUMBER     | NUMBER                                 | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | DATE       | COMMENT | NAME                       |  |  |  |  |
| PF-36B-RIN | 92.27469                               | 87865    | < 10.      |             | UG/L  | 12/02/92   |         | <b>Pentach loropheno l</b> |  |  |  |  |
| PF-36B-RIN | 92.27469                               | 85018    | < 10.      |             | UG/L  | 12/02/92   |         | Phenanthrene               |  |  |  |  |
| PF-36B-RIN | 92.27469                               | 108952   | 19.        | 5.7         | UG/L  | 12/02/92   |         | Pheno l                    |  |  |  |  |
| PF-36B-RIN | 92.27469                               | 129000   | < 10.      |             | UG/L  | 12/02/92   |         | Pyrene                     |  |  |  |  |
| PF-36B-RIN | 92.27469                               | 120821   | < 10.      |             | UG/L  | 12/02/92   |         | 1,2,4-Trichlorobenzene     |  |  |  |  |
| PF-36B-RIN | 92.27469                               | 95954    | < 10.      |             | UG/L  | 12/02/92   |         | 2,4,5-Trichlorophenol      |  |  |  |  |
| PF-36B-RIN | 92.27469                               | 88062    | < 10.      |             | UG/L  | 12/02/92   |         | 2,4,6-Trichlorophenol      |  |  |  |  |

Tentatively Identified Compounds in Customer Sample # 92.27469

none

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|                                 | ******                   | EM-9 QUALITY ASSURANCE REPORT | *****                                     |
|---------------------------------|--------------------------|-------------------------------|-------------------------------------------|
|                                 | EPA SEMIVOLATILES        | Prepared by: LAK on           | 2-Dec-1992                                |
| REQUEST NUMBER: 13497 MATRIX: W | ANALYST: ANTHONY LOMBARD | 0 PROGRAM CODE:               | M106 NOTEBOOK: R7336 PAGE: 121            |
| OWNER: Philip R. Fresquez GROUF | : EM-8 MAIL-STOP: K490   | PHONE: 7-0815 TECHNIQUE:      | GCEC ANALYTICAL PROCEDURE: EPA SW-846 3RD |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

- \_\_\_\_\_ Only qualitative data requested
- \_\_\_\_ Only Blind QC samples run with this batch.
- \_\_\_\_\_ No QC samples run with this sample batch.
- \_\_\_\_\_ No QC samples for this constituent and matrix type available within EM-9

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# SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

| <u>Blank Resu</u> | lts, Sample # | 92.27324 | Date Collected | : 8/31/92   | Date Received: | 9/02/92 | Date Extracted | 1: 9/02/92 | Date Analyzo  | ed: 9/23/92                 |
|-------------------|---------------|----------|----------------|-------------|----------------|---------|----------------|------------|---------------|-----------------------------|
| CUSTOMER          | SAMPLE        |          | ANALYTICAL     | ANALYTICAL  |                | QC      | QC             | COMPLETION | ł             | COMPOUND                    |
| NUMBER            | NUMBER        | ANALYSIS | RESULT         | UNCERTAINTY | UNITS          | VALUE   | UNCERTAINTY    | DATE       | COMMENT       | NAME                        |
| 00.20226          | 92.27324      | 83329    | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Acenaphthene                |
| 00.20226          | 92.27324      | 208968   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Acenaphthylene              |
| 00.20226          | 92.27324      | 62533    | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Aniline                     |
| 00.20226          | 92.27324      | 120127   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Anthracene                  |
| 00.20226          | 92.27324      | 103333   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Azobenzene                  |
| 00.20226          | 92.27324      | 92875    | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | m-Benzidine                 |
| 00.20226          | 92,27324      | 56553    | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Benzo[a]anthracene          |
| 00.20226          | 92.27324      | 50328    | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Benzo[a]pyrene              |
| 00.20226          | 92.27324      | 205992   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Benzo[b]fluoranthene        |
| 00.20226          | 92.27324      | 191242   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Benzo[g,h,i]perylene        |
| 00.20226          | 92.27324      | 207089   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Benzo[k]fluoranthene        |
| 00.20226          | 92.27324      | 65850    | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Benzoic acid                |
| 00.20226          | 92.27324      | 100516   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Benzyl alcohol              |
| 00.20226          | 92 27324      | 111911   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Bis(2-chloroethoxy)methane  |
| 00.20226          | 02 27324      | 111444   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Bis(2-chloroethyl)ether     |
| 00.20220          | 02 27324      | 108601   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Bis(2-chloroisopropyl)ether |
| 00.20220          | 02 27324      | 117817   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Bis(2-ethylhexyl)phthalate  |
| 00.20226          | 02 27324      | 101553   | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | 4-Bromophenylphenyl ether   |
| 00.20226          | 32.27324      | 85687    | < 10.          |             | UG/L           | 0.0     |                | 12/02/92   | UNDER CONTROL | Butyl benzyl phthalate      |
| 00.20226          | 92.21324      | 50507    | < 10           |             | ,-<br>UG/L     | 0.0     |                | 12/02/92   | UNDER CONTROL | 4-Chloro-3-methylphenol     |
| 00.20226          | 92.2/324      | 106479   | - 10.          |             | UG /1          | 0.0     |                | 12/02/92   | UNDER CONTROL | 4-Chloroaniline             |
| 00.20226          | 92.2/324      | 1004/0   | < IU.          |             | 04/L           |         |                | ,,         |               |                             |

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| *********** | EM-9 QUALITY | ASSURANCE REPORT | ********** |
|-------------|--------------|------------------|------------|

| CUSTOMER | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION | 1             | COMPOUND                   |
|----------|----------|----------|------------|-------------|-------|-------|-------------|------------|---------------|----------------------------|
| NUMBER   | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       | NAME                       |
| 00.20226 | 92.27324 | 91587    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Chloronaphthalene        |
| 00.20226 | 92.27324 | 95578    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | o-Chlorophenol             |
| 00.20226 | 92.27324 | 7005723  | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 4-Chlorophenylphenyl ether |
| 00.20226 | 92.27324 | 218019   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Chrysene                   |
| 00.20226 | 92.27324 | 84742    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Di-n-butyl phthalate       |
| 00.20226 | 92.27324 | 117840   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Di-n-octyl phthalate       |
| 00.20226 | 92.27324 | 53703    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Dibenzo[a,h]anthracene     |
| 00.20226 | 92.27324 | 132649   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Dibenzofuran               |
| 00.20226 | 92.27324 | 95501    | < 10.      |             | UG/Ł  | 0.0   |             | 12/02/92   | UNDER CONTROL | o-Dichlorobenzene (1,2)    |
| 00.20226 | 92.27324 | 541731   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | m-Dichlorobenzene (1,3)    |
| 00.20226 | 92.27324 | 106467   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | p-Dichlorobenzene (1,4)    |
| 00.20226 | 92.27324 | 91941    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 3,3'-Dichlorobenzidine     |
| 00.20226 | 92.27324 | 120832   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dichlorophenol         |
| 00.20226 | 92.27324 | 84662    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Diethyl phthalate          |
| 00.20226 | 92.27324 | 131113   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Dimethyl phthalate         |
| 00.20226 | 92.27324 | 105679   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dimethylphenol         |
| 00.20226 | 92.27324 | 51285    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dinitrophenol          |
| 00.20226 | 92.27324 | 121142   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,4-Dinitrotoluene         |
| 00.20226 | 92.27324 | 606202   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2,6-Dinitrotoluene         |
| 00.20226 | 92.27324 | 206440   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Fluoranthene               |
| 00.20226 | 92.27324 | 86737    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Fluorene                   |
| 00.20226 | 92.27324 | 118741   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachlorobenzene          |
| 00.20226 | 92.27324 | 87683    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachlorobutadiene        |
| 00.20226 | 92.27324 | 77474    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachlorocyclopentadiene  |
| 00.20226 | 92.27324 | 67721    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Hexachloroethane           |
| 00.20226 | 92.27324 | 193395   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Indeno[1,2,3-cd]pyrene     |
| 00.20226 | 92.27324 | 78591    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Isophorone                 |
| 00.20226 | 92.27324 | 534521   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Methyl-4,6-dinitrophenol |
| 00.20226 | 92.27324 | 91576    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Methylnaphthalene        |
| 00.20226 | 92.27324 | 95487    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Methylphenol             |
| 00.20226 | 92.27324 | 106445   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 4-Methylphenol             |
| 00.20226 | 92.27324 | 91203    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Naphthalene                |
| 00.20226 | 92.27324 | 88744    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 2-Nitroaniline             |
| 00.20226 | 92.27324 | 99092    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 3-Nitroaniline             |
| 00.20226 | 92.27324 | 100016   | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | 4-Nitroaniline             |
| 00.20226 | 92.27324 | 98953    | < 10.      |             | UG/L  | 0.0   |             | 12/02/92   | UNDER CONTROL | Nitrobenzene               |

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|          |          |          |            |             | EM-9 Q | UALITT ASSURAN |             |            |               |                           |
|----------|----------|----------|------------|-------------|--------|----------------|-------------|------------|---------------|---------------------------|
| CUSTOMER | SAMPLE   |          | ANALYTICAL | ANALYTICAL  |        | QC             | QC          | COMPLETION | l             | COMPOUND                  |
| NUMBER   | NUMBER   | ANALYSIS | RESULT     | UNCERTAINTY | UNITS  | VALUE          | UNCERTAINTY | DATE       | COMMENT       | NAME                      |
| 00.20226 | 92.27324 | 88755    | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | 2-Nitrophenol             |
| 00.20226 | 92.27324 | 100027   | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | 4-Nitrophenol             |
| 00.20226 | 92.27324 | 621647   | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | N-Nitrosodi-n-propylamine |
| 00.20226 | 92.27324 | 62759    | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | N-Nitrosodimethylamine    |
| 00.20226 | 92.27324 | 86306    | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | N-Nitrosodiphenylamine    |
| 0.20226  | 92.27324 | 87865    | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | Pentachlorophenol         |
| 00.20226 | 92.27324 | 85018    | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | Phenanthrene              |
| 00.20226 | 92.27324 | 108952   | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | Phenol                    |
| 00.20226 | 92.27324 | 129000   | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | Pyrene                    |
| 00.20226 | 92.27324 | 120821   | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | 1,2,4-Trichlorobenzene    |
| 0.20226  | 92.27324 | 95954    | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | 2,4,5-Trichlorophenol     |
| 0.20226  | 92.27324 | 88062    | < 10.      |             | UG/L   | 0.0            |             | 12/02/92   | UNDER CONTROL | 2,4,6-Trichlorophenol     |

|                   |               |                   |        | *******       | **    | M-9 QUALITY ASSUR | ANCE REPORT  | ********   | **      |                           |
|-------------------|---------------|-------------------|--------|---------------|-------|-------------------|--------------|------------|---------|---------------------------|
| <u>Blank Spik</u> | e Results, Sa | ample # 92.26589_ | Date C | ollected: 8/3 | 1/92  | Date Received:    | 9/02/92 Date | Extracted: | 9/02/92 | Date Analyzed: 9/23/92    |
| CUSTOMER          | SAMPLE        |                   | AMOUNT | AMOUNT        |       | QC                | QC           | COMPLETIC  | N       | COMPOUND                  |
| NUMBER            | NUMBER        | ANALYSIS          | SPIKED | RECOVERED     | UNITS | S VALUE           | UNCERTAINTY  | DATE       | COMMENT | NAME                      |
| 00.20226          | 92.26589      | 83329             | 50.    | 20.           | UG/L  | 0.0               | 1            | 12/02/92   | •       | Acenaphthene              |
| 00.20226          | 92.26589      | 59507             | 100.   | 42.           | UG/L  | 0.0               | 1            | 12/02/92   |         | 4-Chloro-3-methylphenol   |
| 00.20226          | 92.26589      | 95578             | < 100. | 10.           | UG/L  | 0.0               |              | 12/02/92   |         | o-Chlorophenol            |
| 00.20226          | 92.26589      | 106467            | < 50.  | 10.           | UG/L  | 0.0               |              | 12/02/92   |         | p-Dichlorobenzene (1 4)   |
| 00.20226          | 92.26589      | 121142            | 50.    | 26.           | UG/L  | 0.0               |              | 12/02/92   |         | 2.4-Dinitrotoluene        |
| 00.20226          | 92.26589      | 100027            | 100.   | 56.           | UG/L  | 0.0               |              | 12/02/92   | 2       | 4-Nitrophenol             |
| 00.20226          | 92.26589      | 621647            | 50.    | 15.           | UG/L  | 0.0               |              | 12/02/92   | !       | N-Nitrosodi-n-propylamine |
| 00.20226          | 92.26589      | 87865             | 100.   | 65.           | UG/L  | 0.0               |              | 12/02/92   | 1       | Pentachlorophenol         |
| 00.20226          | 92.26589      | 108952            | < 100. | 10.           | UG/L  | 0.0               |              | 12/02/92   | !       | Phenol                    |
| 00.20226          | 92.26589      | 129000            | 50.    | 31.           | UG/L  | 0.0               |              | 12/02/92   | 1       | Pyrene                    |
| 00.20226          | 92.26589      | 120821            | < 50.  | 10.           | UG/L  | 0.0               |              | 12/02/92   | •       | 1,2,4-Trichlorobenzene    |

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| ********* EM-9 QUALITY ASSURANCE REPORT ************************************ |          |          |        |           |       |       |             |            |                           |  |  |
|------------------------------------------------------------------------------|----------|----------|--------|-----------|-------|-------|-------------|------------|---------------------------|--|--|
|                                                                              |          |          |        |           |       |       |             |            |                           |  |  |
| NUMBER                                                                       | NUMBER   | ANALYSIS | SPIKED | RECOVERED | UNITS | VALUE | UNCERTAINTY | DATE COMME | NT NAME                   |  |  |
| 00.20226                                                                     | 92.26589 | 83329    | 50.    | 23.       | UG/L  | 0.0   |             | 12/02/92   | Acenaphthene              |  |  |
| 00.20226                                                                     | 92.26589 | 59507    | 100.   | 36.       | UG/L  | 0.0   |             | 12/02/92   | 4-Chloro-3-methylphenol   |  |  |
| 00.20226                                                                     | 92.26589 | 95578    | < 100. | 29.       | UG/L  | 0.0   |             | 12/02/92   | o-Chlorophenol            |  |  |
| 00.20226                                                                     | 92.26589 | 106467   | < 50.  | 16.       | UG/L  | 0.0   |             | 12/02/92   | p-Dichlorobenzene (1,4)   |  |  |
| 00.20226                                                                     | 92.26589 | 121142   | 50.    | 25.       | UG/L  | 0.0   |             | 12/02/92   | 2,4-Dinitrotoluene        |  |  |
| 00.20226                                                                     | 92.26589 | 100027   | 100.   | 35.       | UG/L  | 0.0   |             | 12/02/92   | 4-Nitrophenol             |  |  |
| 00.20226                                                                     | 92.26589 | 621647   | 50.    | 23.       | UG/L  | 0.0   |             | 12/02/92   | N-Nitrosodi-n-propylamine |  |  |
| 00.20226                                                                     | 92.26589 | 87865    | 100.   | 43.       | UG/L  | 0.0   |             | 12/02/92   | <b>Pentachlorophenol</b>  |  |  |
| 00.20226                                                                     | 92.26589 | 108952   | < 100. | 27.       | UG/L  | 0.0   |             | 12/02/92   | Phenol                    |  |  |
| 00.20226                                                                     | 92.26589 | 129000   | 50.    | 34.       | UG/L  | 0.0   |             | 12/02/92   | Pyrene                    |  |  |
| 00.20226                                                                     | 92.26589 | 120821   | < 50.  | 18.       | UG/L  | 0.0   |             | 12/02/92   | 1,2,4-Trichlorobenzene    |  |  |

\*\*\*\*\*\* EM-9 QUALITY ASSURANCE REPORT \*\*\*\*\*\*

#### SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 92.26588

Date Collected: 8/31/92 Date Received: 9/02/92 Date Extracted: 9/02/92 Date Analyzed: 9/23/92

| SAMPLE   |          | ANALYTICAL | ANALYTICAL  |       | QC    | QC          | COMPLETION | 1               |                             |
|----------|----------|------------|-------------|-------|-------|-------------|------------|-----------------|-----------------------------|
| NUM      | ANALYSIS | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT         | COMPOUND-NAME               |
| 92.26588 | 83329    | 50.        | 15.         | UG/L  | 121.  | 12.         | 12/01/92   | OUT OF CONTROL  | Acenaphthene                |
| 92.26588 | 208968   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Acenaphthylene              |
| 92.26588 | 62533    | 81.        | 24.3        | UG/L  | 142.  | 14.         | 12/01/92   | WARNING 2-3 SIG | Aniline                     |
| 92.26588 | 120127   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Anthracene                  |
| 92.26588 | 103333   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Azobenzene                  |
| 92.26588 | 92875    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | m-Benzidine                 |
| 92.26588 | 56553    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Benzo[a]anthracene          |
| 92.26588 | 50328    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Benzo[a]pyrene              |
| 92.26588 | 205992   | 86.        | 25.8        | UG/L  | 169.  | 17.         | 12/01/92   | WARNING 2-3 SIG | Benzo[b]fluoranthene        |
| 92.26588 | 191242   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Benzo[g,h,i]perylene        |
| 92.26588 | 207089   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Benzo[k]fluoranthene        |
| 92.26588 | 65850    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Benzoic acid                |
| 92.26588 | 100516   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Benzyl alcohol              |
| 92.26588 | 111911   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Bis(2-chloroethoxy)methane  |
| 92.26588 | 111444   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Bis(2-chloroethyl)ether     |
| 92.26588 | 108601   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Bis(2-chloroisopropyl)ether |
| 92.26588 | 117817   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Bis(2-ethylhexyl)phthalate  |
| 92.26588 | 101553   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | 4-Bromophenylphenyl ether   |
| 92.26588 | 85687    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Butyl benzyl phthalate      |
| 92.26588 | 59507    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | 4-Chloro-3-methylphenol     |
| 92.26588 | 106478   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | 4-Chloroaniline             |
| 92.26588 | 91587    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | 2-Chloronaphthalene         |
| 92.26588 | 95578    | 85.        | 25.5        | UG/L  | 133.  | 13.         | 12/01/92   | UNDER CONTROL   | o-Chlorophenol              |
| 92.26588 | 7005723  | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | 4-Chlorophenylphenyl ether  |
| 92.26588 | 218019   | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Chrysene                    |
| 92.26588 | 84742    | < 10.      |             | UG/L  | 0.0   |             | 12/01/92   | UNDER CONTROL   | Di-n-butyl phthalate        |

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| 92.26588 | 117840 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Di-n-octyl phthalate       |
|----------|--------|-------|------|------|------|-----|----------|-----------------|----------------------------|
| 92.26588 | 53703  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Dibenzo[a,h]anthracene     |
| 92.26588 | 132649 | 51.   | 15.3 | UG/L | 116. | 12. | 12/01/92 | OUT OF CONTROL  | Dibenzofuran               |
| 92.26588 | 95501  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | o-Dichlorobenzene (1,2)    |
| 92.26588 | 541731 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | m-Dichlorobenzene (1,3)    |
| 92.26588 | 106467 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | p-Dichlorobenzene (1,4)    |
| 92.26588 | 91941  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 3,3'-Dichlorobenzidine     |
| 92.26588 | 120832 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2,4-Dichlorophenol         |
| 92.26588 | 84662  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Diethyl phthalate          |
| 92.26588 | 131113 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Dimethyl phthalate         |
| 92.26588 | 105679 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2,4-Dimethylphenol         |
| 92.26588 | 51285  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2,4-Dinitrophenol          |
| 92.26588 | 121142 | 110.  | 33.  | UG/L | 170. | 17. | 12/01/92 | UNDER CONTROL   | 2,4-Dinitrotoluene         |
| 92.26588 | 606202 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2,6-Dinitrotoluene         |
| 92.26588 | 206440 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Fluoranthene               |
| 92.26588 | 86737  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Fluorene                   |
| 92.26588 | 118741 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Hexachlorobenzene          |
| 92.26588 | 87683  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Hexachlorobutadiene        |
| 92.26588 | 77474  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Hexachlorocyclopentadiene  |
| 92.26588 | 67721  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Hexachloroethane           |
| 92.26588 | 193395 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Indeno[1,2,3-cd]pyrene     |
| 92.26588 | 78591  | 170.  | 51.  | UG/L | 158. | 16. | 12/01/92 | UNDER CONTROL   | Isophorone                 |
| 92.26588 | 534521 | 130.  | 39.  | UG/L | 125. | 12. | 12/01/92 | UNDER CONTROL   | 2-Methyl-4,6-dinitrophenol |
| 92.26588 | 91576  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2-Methylnaphthalene        |
| 92.26588 | 95487  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2-Methylphenol             |
| 92.26588 | 106445 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 4-Methylphenol             |
| 92.26588 | 91203  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Naphthalene                |
| 92.26588 | 88744  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2-Nitroaniline             |
| 92.26588 | 99092  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 3-Nitroaniline             |
| 92.26588 | 100016 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 4-Nitroaniline             |
| 92.26588 | 98953  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Nitrobenzene               |
| 92.26588 | 88755  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2-Nitrophènol              |
| 92.26588 | 100027 | 99.   | 29.7 | UG/L | 158. | 16. | 12/01/92 | UNDER CONTROL   | 4-Nitrophenol              |
| 92.26588 | 621647 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | N-Nitrosodi-n-propylamine  |
| 92.26588 | 62759  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | N-Nitrosodimethylamine     |
| 92.26588 | 86306  | 160.  | 48.  | UG/L | 187. | 19. | 12/01/92 | UNDER CONTROL   | N-Nitrosodiphenylamine     |
| 92.26588 | 87865  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Pentachlorophenol          |
| 92.26588 | 85018  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | Phenanthrene               |
| 92.26588 | 108952 | 230.  | 69.  | UG/L | 176. | 18. | 12/01/92 | UNDER CONTROL   | Pheno l                    |
| 92.26588 | 129000 | 90.   | 27.  | UG/L | 166. | 17. | 12/01/92 | WARNING 2-3 SIG | Pyrene                     |
| 92.26588 | 120821 | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 1,2,4-Trichlorobenzene     |
| 92.26588 | 95954  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2,4,5-Trichlorophenol      |
| 92.26588 | 88062  | < 10. |      | UG/L | 0.0  |     | 12/01/92 | UNDER CONTROL   | 2,4,6-Trichlorophenol      |

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Blind QC Results, Sample # 92.27323 Date Collected: 8/31/92 Date Received: 9/02/92 Date Extracted: 9/02/92 Date Analyzed: 9/23/92

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\$ %

| 92.27323 | 83329   | 34.   | 10.2 | UG/L | 65. | 7. | 12/01/92 | WARNING 2-3 SIG | Acenaphthene                |
|----------|---------|-------|------|------|-----|----|----------|-----------------|-----------------------------|
| 92.27323 | 208968  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Acenaphthylene              |
| 92.27323 | 62533   | 31.   | 9.3  | UG/L | 76. | 8. | 12/01/92 | OUT OF CONTROL  | Aniline                     |
| 92.27323 | 120127  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Anthracene                  |
| 92.27323 | 103333  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Azobenzene                  |
| 92.27323 | 92875   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | m~Benzidine                 |
| 92.27323 | 56553   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | <b>Benzo[a]anthracene</b>   |
| 92.27323 | 50328   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Benzo[a]pyrene              |
| 92.27323 | 205992  | 46.   | 13.8 | UG/L | 85. | 8. | 12/01/92 | WARNING 2-3 SIG | Benzo[b]fluoranthene        |
| 92.27323 | 191242  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Benzo[g,h,i]perylene        |
| 92.27323 | 207089  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Benzo[k]fluoranthene        |
| 92.27323 | 65850   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Benzoic acid                |
| 92.27323 | 100516  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Benzyl alcohol              |
| 92.27323 | 111911  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Bis(2-chloroethoxy)methane  |
| 92.27323 | 111444  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Bis(2-chloroethyl)ether     |
| 92.27323 | 108601  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Bis(2-chloroisopropyl)ether |
| 92.27323 | 117817  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Bis(2-ethylhexyl)phthalate  |
| 92.27323 | 101553  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 4-Bromophenylphenyl ether   |
| 92.27323 | 85687   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Butyl benzyl phthalate      |
| 92.27323 | 59507   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 4-Chloro-3-methylphenol     |
| 92.27323 | 106478  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 4-Chloroaniline             |
| 92.27323 | 91587   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2-Chloronaphthalene         |
| 92.27323 | 95578   | 35.   | 10.5 | UG/L | 71. | 7. | 12/01/92 | WARNING 2-3 SIG | o-Chlorophenol              |
| 92.27323 | 7005723 | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 4-Chlorophenylphenyl ether  |
| 92.27323 | 218019  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Chrysene                    |
| 92.27323 | 84742   | < 10. | •    | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Di-n-butyl phthalate        |
| 92.27323 | 117840  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Di-n-octyl phthalate        |
| 92.27323 | 53703   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Dibenzo[a,h]anthracene      |
| 92.27323 | 132649  | 35.   | 10.5 | UG/L | 62. | 6. | 12/01/92 | WARNING 2-3 SIG | Dibenzofuran                |
| 92.27323 | 95501   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | o-Dichlorobenzene (1,2)     |
| 92.27323 | 541731  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | m-Dichlorobenzene (1,3)     |
| 92.27323 | 106467  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | p-Dichlorobenzene (1,4)     |
| 92.27323 | 91941   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 3,3'-Dichlorobenzidine      |
| 92.27323 | 120832  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2,4-Dichlorophenol          |
| 92.27323 | 84662   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Diethyl phthalate           |
| 92.27323 | 131113  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Dimethyl phthalate          |
| 92.27323 | 105679  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2,4-Dimethylphenol          |
| 92.27323 | 51285   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2,4-Dinitrophenol           |
| 92.27323 | 121142  | 59.   | 17.7 | UG/L | 92. | 9. | 12/01/92 | UNDER CONTROL   | 2,4-Dinitrotoluene          |
| 92.27323 | 606202  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2,6-Dinitrotoluene          |
| 92.27323 | 206440  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Fluoranthene                |
| 92.27323 | 86737   | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Fluorene                    |
| 92.27323 | 118741  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Hexachlorobenzene           |
|          |         |       |      |      |     |    |          |                 |                             |

| 92.27323 | 87683  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Hexachlorobutadiene        |
|----------|--------|-------|------|------|-----|----|----------|-----------------|----------------------------|
| 92.27323 | 77474  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Hexachlorocyclopentadiene  |
| 92.27323 | 67721  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Hexachloroethane           |
| 92.27323 | 193395 | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Indeno[1,2,3-cd]pyrene     |
| 92.27323 | 78591  | 73,   | 21.9 | UG/L | 79. | 8. | 12/01/92 | UNDER CONTROL   | Isophorone                 |
| 92.27323 | 534521 | 65.   | 19.5 | UG/L | 67. | 7. | 12/01/92 | UNDER CONTROL   | 2-Methyl-4,6-dinitrophenol |
| 92.27323 | 91576  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2-Methylnaphthalene        |
| 92.27323 | 95487  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2-Methylphenol             |
| 92.27323 | 106445 | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 4-Methylphenol             |
| 92.27323 | 91203  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Naphthalene                |
| 92.27323 | 88744  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2-Nitroaniline             |
| 92.27323 | 99092  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 3-Nitroaniline             |
| 92.27323 | 100016 | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 4-Nitroaniline             |
| 92.27323 | 98953  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Nitrobenzene               |
| 92.27323 | 88755  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2-Nitrophenol              |
| 92.27323 | 100027 | 54.   | 16.2 | UG/L | 79. | 8. | 12/01/92 | UNDER CONTROL   | 4-Nitrophenol              |
| 92.27323 | 621647 | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | N-Nitrosodi-n-propylamine  |
| 92.27323 | 62759  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | N-Nitrosodimethylamine     |
| 92.27323 | 86306  | 98.   | 29.4 | UG/L | 94. | 9. | 12/01/92 | UNDER CONTROL   | N-Nitrosodiphenylamine     |
| 92.27323 | 87865  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Pentachlorophenol          |
| 92.27323 | 85018  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | Phenanthrene               |
| 92.27323 | 108952 | 140.  | 42.  | UG/L | 88. | 9. | 12/01/92 | UNDER CONTROL   | Phenol                     |
| 92.27323 | 129000 | 45.   | 13.5 | UG/L | 83. | 8. | 12/01/92 | WARNING 2-3 SIG | Pyrene                     |
| 92.27323 | 120821 | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 1,2,4-Trichlorobenzene     |
| 92.27323 | 95954  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2,4,5-Trichlorophenol      |
| 92.27323 | 88062  | < 10. |      | UG/L | 0.0 |    | 12/01/92 | UNDER CONTROL   | 2,4,6-Trichlorophenol      |

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\*\*\*\*\*\* **EM-9 QUALITY ASSURANCE REPORT** \*\*\*\*\*

×. 3

#### SURROGATE RESULTS FOR EPA SEMIVOLATILES

| Surrogate 1 = 2-Fluorophenol       | (CAS # = 367124)  |
|------------------------------------|-------------------|
| Surrogate 2 = Phenol-d5            | (CAS # = 4165622) |
| Surrogate 3 = Nitrobenzene-d5      | (CAS # = 4165600) |
| Surrogate 4 = 2-Fluorobiphenyl     | (CAS # = 321608)  |
| Surrogate 5 = 2,4,6~Tribromophenol | (CAS # = 118796)  |
| Surrogate 6 = p-Terphenyl-d14      | (CAS # = )        |

| SAMPLE<br>NUMBER | UNITS | Surrogate 1 | Surrogate 2 | Surrogate 3 | Surrogate 4 | Surrogate 5 | Surrogate 6        | COMPLETION<br>DATE |
|------------------|-------|-------------|-------------|-------------|-------------|-------------|--------------------|--------------------|
|                  |       | •           | •           | •           | •           | •           | - · · · · <b>·</b> |                    |
| 92.26588         | *     | 60.09       | 65.7        | 69.86       | 59.14       | 75.35       | 68.92              | 1-Dec-1992         |
| 92.26589         | *     | 0.0         | 2.66        | 3.18        | 19.6        | 51.75       | 53.88              | 2-Dec-1992         |
| 92.26589         | *     | 20.61       | 25.27       | 34.04       | 36.66       | 35.         | 53.52              | 2-Dec-1992         |
| 92.27323         | *     | 43.66       | 51.59       | 50.26       | 54.88       | 94.33       | 71.58              | 1-Dec-1992         |
| 92.27324         | *     | 39.53       | 43.08       | 50.6        | 51.56       | 59.91       | 69.64              | 2-Dec-1992         |
| 92.27468         | *     | 41.61       | 43.28       | 61.66       | 64.4        | 61.94       | 53.78              | 2-Dec-1992         |
| 92.27469         | *     | 47.84       | 52.19       | 58.66       | 62.5        | 71.05       | 28.5               | 2-Dec-1992         |
|                  |       |             |             |             |             |             |                    |                    |

| EPA Limit | s : |          |          |          |          |          |  |
|-----------|-----|----------|----------|----------|----------|----------|--|
| Water     | *   | 21 - 100 | 10 - 94  | 35 - 114 | 43 - 116 | 10 - 123 |  |
| Soil      | *   | 25 - 121 | 24 - 113 | 23 - 120 | 30 - 115 | 19 - 122 |  |

REPORT NUMBER: 16146

Analyst



Date

Date

KO. Section Leader

Dáte

33 - 141 18 - 137

Date

màs

QA Officer

No Sample Discrepancies Noted by Sample Management Section
The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

| REPORT NUM  | MBER: 15148        |                  | (ptul                | $(\mathcal{A})$           |           |                    |             | Pag           | ge: 01 |
|-------------|--------------------|------------------|----------------------|---------------------------|-----------|--------------------|-------------|---------------|--------|
| а<br>ъ.,    |                    | ***              | ***** EM·            | 9 ANALYTICAL R            | EPORT     | *****              |             |               | -      |
|             |                    |                  | Prepared by: N       | 1AB                       | on 8-5    | Sep-1992           |             |               |        |
| ANALYSIS:   | U REQ              | UEST NUMBER:     | 13504 MA             | ATRIX: W A                | NALYST: R | CICHARD ROBINS     | N           | PROGRAM CODE: | M106   |
| OWNER: Phi  | ilip R. Fresque    | z GRO            | UP: HSE-8            | MAIL-STOP:                | к490 рн   | IONE: 7-0815       |             |               |        |
| ANALYTICAL  | TECHNIQUE: IC      | PMS ANA          | LYTICAL PROCEDU      | JRE:                      |           | NOTEBOOK:          | R8137 PAGE: | 158           |        |
| CUSTOMER SA | MPLES:             |                  |                      |                           | b         |                    |             |               |        |
|             | CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS     | COMPLETION<br>DATE | COMMENT     |               |        |
| Bottom pot  | PF-36A-RIN         | 92.27468         | < 0.1                |                           | UG/L      | 9/08/92            |             |               |        |
| Top area    | PF-36B-RIN         | 92.27469         | 172.                 | 8.5                       | UG/L      | 9/08/92            |             |               |        |

Sugar ....

| *****    | EM-9    | QUALITY | ASSURANCE | REPORT     | **** |
|----------|---------|---------|-----------|------------|------|
| Prepared | by: MAB |         | on        | 8-Sep-1992 |      |

 REQUEST NUMBER:
 13504
 MATRIX:
 W
 ANALYST:
 RICHARD ROBINSON
 PROGRAM CODE:
 M106

 OWNER:
 Philip R. Fresquez
 GROUP:
 HSE-8
 MAIL-STOP:
 K490
 PHONE:
 7-0815

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | QC<br>VALUE | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT       |
|---------------|----------------------|---------------------------|-------|-------------|-------------------|--------------------|---------------|
| 00.25697      | 43.7                 | 2.2                       | UG/L  | 45.         | 2.                | 9/08/92            | UNDER CONTROL |

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | QC<br>VALUE | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT       |
|---------------|----------------------|---------------------------|-------|-------------|-------------------|--------------------|---------------|
| 92.27508      | 58.5                 | 2.9                       | UG/L  | 55.         | 2.4               | 9/08/92            | UNDER CONTROL |

REPORT NUMBER: 15148

UTBLE

92

Section Leader

QA Officer

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

Disturbed Monument 1115 +NE Corner of Bidg 36-7

+SE Corner of Bldg 36-7

j.

+PF-36A-N-100



+PF-36A-S-100





+PF-368-S-100

| REPORT NU   | MBER: 15374                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                  |                                                                                                                                       | 36B                                                                                                                  | Tda                                                          | PU                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Page: O'  |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
|             |                                                                                                                                                                                                                                                                                                                                                             | ***                                                                                                                                                                                                                              | ***** EN-                                                                                                                             | 9 ANALYTICAL R                                                                                                       | EPORT                                                        | ****                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
|             |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  | Prepared by: Y                                                                                                                        | 16                                                                                                                   | on 29-5                                                      | ep-1992                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| ANALYSIS:   | U REQUE                                                                                                                                                                                                                                                                                                                                                     | EST NUMBER:                                                                                                                                                                                                                      | 13504 NA                                                                                                                              | TRIX: SS A                                                                                                           | NALYST: G                                                    | EORGE BROOKS                                                                                                                                                                                                                                   | PROGRAM C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ODE: N106 |
| OWNER: Ph   | ilin R. Fresquez                                                                                                                                                                                                                                                                                                                                            | 680                                                                                                                                                                                                                              | ID - HSE-R                                                                                                                            | MATI -STOP.                                                                                                          | r400 DW                                                      | ONE. 7.0815                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
|             |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  | or. NGC-0                                                                                                                             | HAIL-STOP:                                                                                                           | K970 PM                                                      | UNE: /*0013                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| ANALYTICAL  | TECHNIQUE: DNA                                                                                                                                                                                                                                                                                                                                              | ANA                                                                                                                                                                                                                              | LYTICAL PROCEDU                                                                                                                       | RE:                                                                                                                  |                                                              | NOTEBOOK:                                                                                                                                                                                                                                      | DNA LOG PAGE: 273                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
|             |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                       |                                                                                                                      |                                                              |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| CUSTOMER S  | AMPLES:                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                  |                                                                                                                                       |                                                                                                                      |                                                              |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
|             | CUSTOMER                                                                                                                                                                                                                                                                                                                                                    | SAMPLE                                                                                                                                                                                                                           | ANALYTICAL                                                                                                                            | ANALYTICAL                                                                                                           |                                                              | COMPLETION                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
|             | NUMBER                                                                                                                                                                                                                                                                                                                                                      | NUMBER                                                                                                                                                                                                                           | RESULT                                                                                                                                | UNCERTAINTY                                                                                                          | UNITS                                                        | DATE                                                                                                                                                                                                                                           | COMMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
|             | PF-368-V-20                                                                                                                                                                                                                                                                                                                                                 | 92.27444                                                                                                                                                                                                                         | 98.                                                                                                                                   | 10.                                                                                                                  | 11676                                                        | 0/28/07                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
|             | PF-368-W-40                                                                                                                                                                                                                                                                                                                                                 | 92.27445                                                                                                                                                                                                                         | 13.6                                                                                                                                  | 1.                                                                                                                   | UG/G                                                         | 9/28/92                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
|             | PF-368-W-60                                                                                                                                                                                                                                                                                                                                                 | 92.27446                                                                                                                                                                                                                         | 24.                                                                                                                                   | 2.                                                                                                                   | UG/G                                                         | 9/28/92 ×                                                                                                                                                                                                                                      | 40,70 078-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |
| 1N          |                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                  |                                                                                                                                       |                                                                                                                      |                                                              |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
|             | PF-368-W-100                                                                                                                                                                                                                                                                                                                                                | 92.27447                                                                                                                                                                                                                         | 26.7                                                                                                                                  | 3.                                                                                                                   | UG/G                                                         | 9/28/92                                                                                                                                                                                                                                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
| ¥ •         | PF- <b>368-W-</b> 100<br>PF- <b>368-<u>W-150</u></b>                                                                                                                                                                                                                                                                                                        | 92.27447<br>92.27448                                                                                                                                                                                                             | 26.7<br>41.6                                                                                                                          | 3.<br>4.                                                                                                             | UG/G<br>UG/G                                                 | 9/28/92                                                                                                                                                                                                                                        | · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| ¥ •         | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20                                                                                                                                                                                                                                                                                                                 | 92.27447<br>92.27448<br>92.27449                                                                                                                                                                                                 | 26.7<br>41.6<br>22.7                                                                                                                  | 3.<br>4.<br>2.                                                                                                       | UG/G<br>UG/G<br>UG/G                                         | 9/28/92<br>9/28/92<br>9/28/92                                                                                                                                                                                                                  | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
| ¥ •         | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40                                                                                                                                                                                                                                                                                                  | 92.27447<br>92.27448<br>92.27449<br>92.27450                                                                                                                                                                                     | 26.7<br>41.6<br>22.7<br>36.                                                                                                           | 3.<br>4.<br>2.<br>4.                                                                                                 | UG/G<br>UG/G<br>UG/G<br>UG/G                                 | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                                                                                                            | x=29,08 ~y 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| E           | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60                                                                                                                                                                                                                                                                                   | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451                                                                                                                                                                         | 26.7<br>41.6<br>22.7<br>36.<br>50.                                                                                                    | 3.<br>4.<br>2.<br>4.<br>5.                                                                                           | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G                         | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                                                                                                 | x=29,0° ~ys <sup>-1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| E           | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100                                                                                                                                                                                                                                                                   | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452                                                                                                                                                             | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.                                                                                             | 3.<br>4.<br>2.<br>4.<br>5.<br>3.                                                                                     | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G                         | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                                                                                      | x=29.08 ~ y x <sup>-1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |
| E           | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150                                                                                                                                                                                                                                                   | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453                                                                                                                                                 | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7                                                                                      | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7                                                                              | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G                 | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                                                                           | x=29,08 ~ys="                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| E           | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150<br>PF-368-N-20                                                                                                                                                                                                                                    | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454                                                                                                                                     | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.                                                                               | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.                                                                        | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G         | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                                                     | $x = 29.08 \text{ mgs}^{-1}$<br>) $- U_1 L_1 R_3$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
| E           | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150<br>PF-368-N-20<br>PF-368-N-40                                                                                                                                                                                                                      | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455                                                                                                                         | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.                                                                        | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.                                                                  | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G         | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                                          | $x = 29.00 \text{ m}^{-1}$<br>$y = 29.00 \text{ m}^{-1}$<br>y = 12.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |
| EN          | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-60                                                                                                                                                                                                      | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455                                                                                                             | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4                                                                 | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2                                                           | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                               | x=29.08 ~ys-1<br>> U.L.13<br>3.1 gm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |
| EN          | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-60<br>PF-368-N-100                                                                                                                                                                                      | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455<br>92.27456<br>92.27457                                                                                     | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.                                                          | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.                                                     | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                    | $\bar{x} = 29.08 \text{ m} \text{ m}^{-1}$<br>$\rightarrow U_1 L_1 B_3$<br>$3.4 \text{ m}^{-1}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| EN          | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-60<br>PF-368-N-100<br>PF-368-N-100<br>PF-368-N-150                                                                                                                                                        | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455<br>92.27456<br>92.27457<br>92.27458                                                                         | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.                                                   | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1                                              | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                                    | x=29,08 ~ys <sup>-1</sup><br>>U,L,13<br>1303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| EN          | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-100<br>PF-368-N-150<br>PF-368-S-20                                                                                                                                                        | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455<br>92.27456<br>92.27457<br>92.27458<br>92.27458                                                             | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.<br>19.8                                           | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1<br>2.                                        | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                                         | $\bar{x} = 29.08 \text{ m} \text{ m}^{-1}$<br>- 4.1.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13<br>3.4.13 |           |
| EN          | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-60<br>PF-368-N-100<br>PF-368-N-150<br>PF-368-S-20<br>PF-368-S-40                                                                                                                          | 92.27447<br>92.27448<br>92.27450<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455<br>92.27456<br>92.27457<br>92.27458<br>92.27459<br>92.27460                                                 | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.<br>19.8<br>7.8                                    | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1<br>2.<br>0.8                                 | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                                              | $\bar{x} = 29.08 \text{ m} \text{ m}^{-1}$<br>- 4.1.13<br>- 13.03<br>$3.4 \text{ m}^{-1}$<br>- 13.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |
| E<br>N<br>S | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-150<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-40<br>PF-368-N-100<br>PF-368-N-100<br>PF-368-S-20<br>PF-368-S-20<br>PF-368-S-60                                                                                                           | 92.27447<br>92.27448<br>92.27450<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455<br>92.27456<br>92.27458<br>92.27459<br>92.27459<br>92.27460<br>92.27461                                     | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.<br>19.8<br>7.8<br>13.                             | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1<br>2.<br>0.8<br>1.        | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                                        | $\bar{x} = 29.08 \text{ m} \text{ m}^{-1}$<br>- 4.1.13<br>3.4.5m<br>13.03<br>1.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |
| E<br>N<br>S | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-40<br>PF-368-N-100<br>PF-368-N-100<br>PF-368-S-20<br>PF-368-S-20<br>PF-368-S-40<br>PF-368-S-100                                                                                            | 92.27447<br>92.27448<br>92.27450<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27453<br>92.27455<br>92.27455<br>92.27456<br>92.27458<br>92.27459<br>92.27460<br>92.27461<br>92.27462                                     | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.<br>19.8<br>7.8<br>13.<br>5.9                      | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1<br>2.<br>0.8<br>1.<br>0.6                    | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                             | $\bar{x} = 29.08 \text{ m} \text{ m}^{-1}$<br>$> U_1 L_1 B_{3.0}$<br>1303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| E<br>N<br>S | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-40<br>PF-368-N-100<br>PF-368-N-150<br>PF-368-S-20<br>PF-368-S-40<br>PF-368-S-100<br>PF-368-S-100<br>PF-368-S-100                                                                           | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27455<br>92.27455<br>92.27455<br>92.27456<br>92.27457<br>92.27458<br>92.27459<br>92.27460<br>92.27461<br>92.27462<br>92.27463             | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.<br>19.8<br>7.8<br>13.<br>5.9<br>4.2               | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1<br>2.<br>0.8<br>1.<br>0.6<br>0.4             | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                                             | $\bar{x} = 29.08 \text{ m}^{-1}$<br>> 4.1.13<br>3.4.13<br>13.03<br>13.03<br>13.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0         |
| E<br>N<br>S | PF-368-W-100<br>PF-368-E-20<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-E-100<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-40<br>PF-368-N-100<br>PF-368-N-100<br>PF-368-S-20<br>PF-368-S-20<br>PF-368-S-40<br>PF-368-S-100<br>PF-368-S-100<br>PF-368-S-100<br>PF-368-SED                              | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455<br>92.27456<br>92.27457<br>92.27458<br>92.27460<br>92.27461<br>92.27462<br>92.27463<br>92.27464             | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.<br>19.8<br>7.8<br>13.<br>5.9<br>4.2<br>10.        | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1<br>2.<br>0.8<br>1.<br>0.6<br>0.4<br>1.       | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92                       | x = 29,08 ~ y 5"<br>> U, L, 13<br>1303<br>1303<br>1 Dil<br>shean channe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | e         |
| E<br>N<br>S | PF-368-W-100<br>PF-368-W-150<br>PF-368-E-20<br>PF-368-E-40<br>PF-368-E-60<br>PF-368-E-100<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-20<br>PF-368-N-40<br>PF-368-N-40<br>PF-368-N-40<br>PF-368-N-100<br>PF-368-N-100<br>PF-368-S-20<br>PF-368-S-20<br>PF-368-S-40<br>PF-368-S-100<br>PF-368-S-100<br>PF-368-S-100<br>PF-368-S-00<br>PF-368-SED<br>PF-368-SED | 92.27447<br>92.27448<br>92.27449<br>92.27450<br>92.27451<br>92.27452<br>92.27453<br>92.27454<br>92.27455<br>92.27455<br>92.27456<br>92.27457<br>92.27458<br>92.27460<br>92.27461<br>92.27462<br>92.27463<br>92.27464<br>92.27465 | 26.7<br>41.6<br>22.7<br>36.<br>50.<br>30.<br>6.7<br>30.<br>10.<br>2.4<br>10.<br>13.<br>19.8<br>7.8<br>13.<br>5.9<br>4.2<br>10.<br>46. | 3.<br>4.<br>2.<br>4.<br>5.<br>3.<br>0.7<br>3.<br>1.<br>0.2<br>1.<br>0.1<br>2.<br>0.8<br>1.<br>0.6<br>0.4<br>1.<br>5. | UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G<br>UG/G | 9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92<br>9/28/92 | x = 29,08 ~ y 5"<br>> U, L, 13<br>1303<br>1303<br>1 Dil<br>shean channe<br>grand zero                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | e         |

Namy 3.4 to 98 pm X=24,35 (+21995)

| ****** EN-9 QUALITY ASSURANCE REPORT ******** |                                              |                    |  |  |  |  |  |
|-----------------------------------------------|----------------------------------------------|--------------------|--|--|--|--|--|
|                                               | Prepared by: YIG on 29-Sep-1992              |                    |  |  |  |  |  |
| REQUEST NUMBER: 13504                         | MATRIX: SS ANALYST: GEORGE BROOKS            | PROGRAM CODE: M106 |  |  |  |  |  |
| OWNER: Philip R. Fresque:                     | Z GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0815 |                    |  |  |  |  |  |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   | ANALYTICAL | ANALYTICAL  |       | ec    | QC          | COMPLETION |               |
|----------|------------|-------------|-------|-------|-------------|------------|---------------|
| NUM      | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |
| 00.00551 | 4.4        | 0.4         | UG/G  | 4.58  | 0.04        | 9/28/92    | UNDER CONTROL |
| 00.00551 | 4.4        | 0.4         | UG/G  | 4.58  | 0.04        | 9/28/92    | UNDER CONTROL |
| 00.00608 | 1.1        | 0.1         | UG/G  | 1.11  | 0.05        | 9/28/92    | UNDER CONTROL |
| 80200.00 | 1.1        | 0.1         | UG/G  | 1.11  | 0.05        | 9/28/92    | UNDER CONTROL |
| 00.00608 | 1.1        | 0.1         | UG/G  | 1.11  | 0.05        | 9/28/92    | UNDER CONTROL |

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE   | ANALYTICAL | ANALYTICAL  |       | QC    | ec          | COMPLETION |               |
|----------|------------|-------------|-------|-------|-------------|------------|---------------|
| NUM      | RESULT     | UNCERTAINTY | UNITS | VALUE | UNCERTAINTY | DATE       | COMMENT       |
| 92.27506 | 214.       | 21.         | UG/G  | 231.  | 7.6         | 9/28/92    | UNDER CONTROL |
| 92.27507 | 44.9       | 5.          | UG/G  | 48.4  | 1.6         | 9/28/92    | UNDER CONTROL |

REPORT NUMBER: 15374

VigBrDKnahmagJanelystReviewerSection LeaderQA Officer9/29/929/29/929/30/929/30/92DateDateDateDate

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986, / LA-11114-MS, pp. 3-4.

Page: 02

| REPORT NU   | MBER: 15148        |                  | 1                    | the r                     | nn SP                    | Ø                  |             | q            | ,age |
|-------------|--------------------|------------------|----------------------|---------------------------|--------------------------|--------------------|-------------|--------------|------|
|             |                    | ***              | ***** EM             | -9 ANALYTICAL             | REPORT                   | ****               |             |              |      |
|             |                    |                  | Prepared by:         | MAB                       | on 8-5                   | Sep-1992           |             |              |      |
| ANALYSIS:   | U REG              | UEST NUMBER:     | 13504 M              | ATRIX: W                  | ANALYST: R               | ICHARD ROBINS      | ON          | PROGRAM CODE | :    |
| OWNER: Phi  | lip R. Fresque     | z GRO            | UP: HSE-8            | MAIL-STOP:                | к490 рн                  | ONE: 7-0815        |             |              |      |
| ANALYTICAL  | TECHNIQUE: IC      | PMS ANA          | LYTICAL PROCED       | URE:                      |                          | NOTEBOOK :         | R8137 PAGE: | 158          |      |
| CUSTOMER SA | MPLES:             |                  |                      |                           | 1                        |                    |             |              |      |
|             | CUSTOMER<br>NUMBER | SAMPLE<br>NUMBER | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | 11 <sup>b</sup><br>UNITS | COMPLETION<br>DATE | COMMENT     |              |      |
| Bottom pit  | PF-36A-RIN         | 92.27468         | < 0.1                |                           | UG/L                     | 9/08/02            |             |              |      |
|             | PF-36R-PIN         | 02 27/40         | 173                  | . r                       |                          | 7/00/92            |             |              |      |

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|         |                    | *****        | EM-9 | QUALITY  | ASSURANCE | REPORT     | ****          |               |      |
|---------|--------------------|--------------|------|----------|-----------|------------|---------------|---------------|------|
|         |                    | Prepared by: | MAB  |          | on        | 8-Sep-1992 |               |               |      |
| REQUEST | NUMBER: 13504      | MATRIX: W    |      | ANALYST: | RICHARD   | ROBINSON   |               | PROGRAM CODE: | M106 |
| OWNER:  | Philip R. Fresquez | GROUP:       | HSE  | -8       | MAIL-STOP | °: K490    | PHONE: 7-0815 |               |      |

### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | QC<br>VALUE | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT       |
|---------------|----------------------|---------------------------|-------|-------------|-------------------|--------------------|---------------|
| 00.25697      | 43.7                 | 2.2                       | UG/L  | 45.         | 2.                | 9/08/92            | UNDER CONTROL |

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE .      | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS  | QC<br>VALUE | QC<br>UNCERTAINTY           | COMPLETION<br>DATE | COMMENT          |
|---------------|----------------------|---------------------------|--------|-------------|-----------------------------|--------------------|------------------|
| 92.27508      | 58.5                 | 2.9                       | UG/L   | 55.         | 2.4                         | 9/08/92            | UNDER CONTROL    |
| REPORT NUMBER | : 15148              | Analyst                   | Jahmis | FULLE BLeen | <u>C76</u><br>Section Leade | <br>r Q/           | mag<br>A Officer |

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92 9 9/14/92

9/14/92

Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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Disturbed Monument 1115 +NE Corner of Bldg 36-7

+SE Corner of Bldg 36-7

34H

+pf-36A-N-50 +pF-36A-W-100 +pF-36A-N-25 +pF-36A-N-25 PF=30A2354512--25 PF-36A-E-75 -тре-зек-з-чо----+ре-зек-s-25 +ре-зек-е-б9 ролет жэе стемо 124 +pf-36A-S-50

+PF-36A-S-100



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+PF-368-S-100

+PF-368-S-150

# Los Alamos

Los Alamos National Laboratory Los Alamos, New Mexico 87545

# memorandum

| ro: | Tony | Grieggs, | ESH-8, | MS | K490 |
|-----|------|----------|--------|----|------|
|-----|------|----------|--------|----|------|

Phil Fresquez, EM-8

ESH-8/EFM-94-0065

FROM:

SYMBOL:

DATE: March 28, 1994

MAIL STOP/TELEPHONE: K490/7-0815

#### SUBJECT: RESULTS OF THE SOIL SAMPLING SURVEY CONDUCTED OVER RCRA FIRING SITE TA-36-8: TOTAL URANIUM OVER TA-36A

On May 14, 1993, I sent you a report describing the results of the soil survey conducted over two areas at firing site TA-36-8: (1) the detonation pad located approximately 100-yards east of building TA-36-8 (TA-36A), and (2) the detonation pad located on top of (bunker) building TA-36-8 (TA-36B) (Phil Fresquez, "Results of the Soil Sampling Survey Conducted Over Active RCRA Firing Site TA-36-8", Los Alamos National Laboratory memorandum EM-8:93-1315, to Tony Grieggs [May 14, 1993]).

In that memo, I indicated to you that the results for total uranium over TA-36A had not been received from EM-9 as of yet. Enclosed you will find the data.

In general, most of the soil samples collected over site TA-36A contained total uranium concentrations within or near background levels (i.e.,  $<3.4 \ \mu g/g$ ). Only one sample (36A-S-100) contained relatively high levels of total uranium--48  $\mu g/g$ . This particular sample was collected close to TA-36B; and, may have been contaminated from that site. As you recall, total uranium at TA-36B ranged in concentration from 2.4 to 98  $\mu g/g$ .

PF:ja

Cy: S. Rae, ESH-8, MS K490 M. Saladen, ESH-8, MS K490 G. Gould, MEE-4, MS G787 M. Montoya, M-8, MS J960 D. Griechen, M-DO, MS P915 ESH-8 Reading File

|                         | *******             | EM-9 ANALYTICAL | . REPORT *********     |             |          |
|-------------------------|---------------------|-----------------|------------------------|-------------|----------|
|                         | Prepared            | by: AS          | on 22-Jun-1993         |             | <u> </u> |
| ANALYSIS: U RE          | QUEST NUMBER: 13440 | MATRIX: SS      | ANALYST: GEORGE BROOKS | PROGRAM COL | DE: M106 |
| OWNER: Philip R. Fresqu | ez GROUP: EM-8      | MAIL-STOP:      | K490 PHONE: 7-0815     |             |          |
| ANALYTICAL TECHNIQUE: K | PA ANALYTICAL P     | ROCEDURE :      | NOTEBOOK:              | PAGE:       |          |

CUSTOMER SAMPLES:

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| CUSTOMER     | SAMPLE            | ANALYTICAL | ANALYTICAL  |        | COMPLETION |                                                                                                                  |
|--------------|-------------------|------------|-------------|--------|------------|------------------------------------------------------------------------------------------------------------------|
| NUMBER       | NUMBER            | RESULT     | UNCERTAINTY | UNITS  | DATE       | COMMENT                                                                                                          |
| PF-364-0-0   | 92,26677          | 0 78       | 0.05        |        | 6/22/03    |                                                                                                                  |
| PE-36A-S-100 | 92.26678          | 48 12      | 3 37        |        | 6/22/03    |                                                                                                                  |
| PF-36A-S-50/ | 92.26679          | 3.98       | 0.28        |        | 6/22/93    |                                                                                                                  |
| PF-36A-S-25' | 92,26680          | 1.49       | 0.1         |        | 6/22/93    |                                                                                                                  |
| PF-36A-S-10' | 92,26681          | 0.97       | 0.07        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-S-5/  | 92.26682          | 0.96       | 0.07        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-W-100 | 92.26683          | 0.53       | 0.04        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-W-50' | 92.26684          | 1.65       | 0.12        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-W-25' | 92.26685          | 0.52       | 0.04        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-W-10' | 92.26686          | 0.63       | 0.04        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-W-51  | 92.26687          | 0.55       | 0.04        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-E-100 | 92.26688          | 4.16       | 0.29        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-E-76  | 92.26689          | 2.62       | 0.18        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-E-50' | 92.26690          | 2.98       | 0.21        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-E-25' | 92.26691          | 2.87       | 0.2         | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-E-10' | 92.26692          | 5.16 🗸     | 0.36        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-E-54  | 92.26693          | 2.88       | 0.2         | UG/G   | 5/22/93    |                                                                                                                  |
| PF-36A-N-100 | 92.26694          | 2.08       | 0.15        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-N-50' | 92.26695          | 3.2        | 0.22        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-N-254 | <u>*</u> 92.26696 | 2.54       | 0.18        | UG/G   | 6/22/93.   | •                                                                                                                |
| PF-36A-N-10R | 92.26697          | 1.76       | 0.12        | - UG/G | 6/22/93    | and the second |
| PF-36A-N-104 | 92.26698          | 1.78       | 0.12        | UG/G   | 6/22/93    |                                                                                                                  |
| PF-36A-N-54  | 92.26699          | 4.46 1     | 0,31        | UG/G   | 6/22/93    |                                                                                                                  |
|              |                   | 15         |             |        |            | •                                                                                                                |

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| REPORT | NUMBER:   | 19008    | (continued) |              |              |             |         |        |               | Page: | 02 |
|--------|-----------|----------|-------------|--------------|--------------|-------------|---------|--------|---------------|-------|----|
|        |           |          | ****        | EM-9 QUALITY | ASSURANCE RE | EPORT       | *****   | **     |               |       |    |
|        |           |          | Prepared b  | y: AS        | on 22:       | - Jun- 1993 |         |        |               |       |    |
| REQUES | T NUMBER: | 13440    | MATRIX: S   | S ANALYST    | GEORGE BRO   | DOKS        |         |        | PROGRAM CODE: | M106  |    |
| OWNER: | Philip    | R. Fresc | quez GROU   | P: EM-8      | MAIL-STOP:   | K490        | PHONE : | 7-0815 |               |       |    |

#### SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

- \_\_\_\_ Only qualitative data requested
- \_\_\_\_\_ Only Blind QC samples run with this sample batch.
- \_\_\_\_\_ No QC samples run with this sample batch.

\_\_\_\_ No QC samples for this constituent and matrix type available within EM-9

#### SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

| SAMPLE<br>NUM | ANALYTICAL<br>RESULT | ANALYTICAL<br>UNCERTAINTY | UNITS | QC<br>VALUE | QC<br>UNCERTAINTY | COMPLETION<br>DATE | COMMENT        |
|---------------|----------------------|---------------------------|-------|-------------|-------------------|--------------------|----------------|
| 92.26727      | 0.81                 | 0.06                      | UG/G  | 1.11        | 0.02              | 6/22/93            | OUT OF CONTROL |
| 92.26728      | 0.58                 | 0.04                      | UG/G  | 0.98        | 0.05              | 6/22/93            | OUT OF CONTROL |



No Sample Discrepancies Noted by Sample Management Section

ne control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.



Toms: Phil Fresquez, EM-8, K490 From/MS: Terry Spontarelli Phone/FAX: (505)667-0034(505)667-0500 Symbol: M-1:93-72 Date: March 8, 1993

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# SUBJECT: SOIL SAMPLES (U)

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Forty-five soil samples, and two water samples were received from EM -8 for explosive residue 1-1analysis. The predominant explosives of interest were: HMX, RDX, Tetryl, TNT, and 2,4-

Two quality control samples were analyzed along with the 47 environmental samples to verify the method. The average per cent recovery data is given in Table 1.

The detection limits (as shown in Table 2) were established by preparing a series of calibration standards with the concentration of analytes in solution that can be detected with a 95% certainty. TS:mmm

Cy: T. Spontarelli · M-1 File

HMX RDX TNT 2,4DNT

m total ?

### M-1 ANALYTICAL REPORT

## REQUESTER: Phil Fresquez

## DATE: March 3, 1993

ANALYSIS: High Explosive Detection in Soil

# PROGRAM CODE: CH-40

| SAMPLE IDENTIFICATION | COMPOUND | UG/GR |
|-----------------------|----------|-------|
| PF-36A-E-5'           | HMX      | 0.6   |
| PF-36A-E-5'           | RDX      | <0.3  |
| PF-36A-E-5'           | TETRYL   | <0.4  |
| PF-36A-E-5'           | TNT      | <0.4  |
| PF-36A-E-5'           | 2,4 DNT  | 6.6   |
| PF-36A-E-10'          | HMX      | 0.4   |
| PF-36A-E-10'          | RDX      | <0.3  |
| PF-36A-E-10'          | TETRYL   | <0.4  |
| PF-36A-E-10'          | TNT      | <0.4  |
| PF-36A-E-10'          | 2,4 DNT  | 0.8   |
| PF-36A-E-25'          | HMX      | 0.9   |
| PF-36A-E-25'          | RDX      | <0.3  |
| PF-36A-E-25           | TETRYL   | <0.4  |
| PF-36A-E-25'          | TNT      | <0.4  |
| PF-36A-E-25'          | 2,4 DNT  | 0.4   |
| PF-36A-E-50'          | НМХ      | 3.9   |
| PF-36A-E-50'          | RDX      | <0.3  |
| PF-36A-E-50'          | TETRYL   | <0.4  |
| PF-36A-E-50'          | TNT      | <0.4  |
| PF-36A-E-50'          | 2,4 DNT  | 207.3 |
| PF-36A-E-100'         | НМХ      | 1.4   |
| PF-36A-E-100'         | RDX      | <0.3  |
| PF-36A-E-100'         | TETRYL   | <0.4  |
| PF-36A-E-100'         | TNT      | <0.4  |
| PF-36A-E-100'         | 2,4 DNT  | 0.8   |
| PF-36A-E-76'          | НМХ      | 0.8   |
| PF-36A-E-76'          | RDX      | <0.3  |
| PF-36A-E-76'          | TETRYL   | <0.4  |
| PF-36A-E-76'          | TNT      | <0.4  |
| PF-36A-E-76'          | 2,4 DNT  | 119.6 |
| PF-36A-W-5'           | НМХ      | 0.7   |
| PF-36A-W-5'           | RDX      | 0.6   |

| SAMPLE IDENTIFICATION | COMPOUND | UG/GR    |
|-----------------------|----------|----------|
| PF-36A-W-5'           | TETRYL   | <04      |
| PF-36A-W-5'           | TNT      | <0.4     |
| PF-36A-W-5'           | 2,4 DNT  | 49       |
| PF-36A-W-10'          | HMX .    | 11       |
| PF-36A-W-10'          | RDX      |          |
| PF-36A-W-10'          | TETRYL   | <0.0     |
| PF-36A-W-10'          | TNT      |          |
| PF-36A-W-10'          | 2,4 DNT  | 0.4      |
| PF-36A-W-25'          | HMX      | 26       |
| PF-36A-W-25'          | RDX      | 20.9     |
| PF-36A-W-25'          | TETRYL   | 20.5     |
| PF-36A-W-25'          | TNT      | 56       |
| PF-36A-W-25           | 2.4 DNT  | 11       |
| PF-36A-W-50'          | HMX      | 0.3      |
| PF-36A-W-50'          | BDX      | 0.3      |
| PF-36A-W-50'          | TETRYL   | <0.5     |
| PF-36A-W-50'          | TNT      | <u> </u> |
| PF-36A-W-50'          | 2.4 DNT  | 4.2      |
| PF-36A-W-100'         | HMX      | 4.2      |
| PF-36A-W-100'         | BDX      | <0.3     |
| PF-36A-W-100'         | TETRYL   | <0.5     |
| PF-36A-W-100'         | TNT      |          |
| PF-36A-W-100'         | 2.4 DNT  | <0.4     |
| PF-36A-0-0'           | HMX      | 0.2      |
| PF-36A-0-0'           | BDX      | 0.5      |
| PF-36A-0-0'           | TETBYL   | <0.5     |
| PF-36A-0-0'           | TNT      | <0.4     |
| PF-36A-0-0'           |          | <0.4     |
| PF-36A-N-10R          |          | <0.2     |
| PF-36A-N-10R          | PDY      | 0.5      |
| PF-36A-N-10R          |          | <0.3     |
| PF-36A-N-10B          |          | <0.4     |
| PF-36A-N-10B          |          | <0.4     |
| PE-36A-N-5'           |          | <0.2     |
| PF-36A-N-5'           |          | 1.9      |
| PF-364-N-5'           |          | <0.3     |
| PF-364-N-5'           |          | <0.4     |
| PF-364-N-5'           |          | <0.4     |
| PE-364-NL10           | 2,4 UN I | 13.1     |
|                       | HMX      | <0.3     |
|                       | RDX      | 0.3      |
| FF-30A-IN-10          | TETRYL   | <0.4     |

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| SAMPLE IDENTIFICATION | COMPOUND | UG/GR |
|-----------------------|----------|-------|
| PF-36A-N-10'          | TNT      | <0.4  |
| PF-36A-N-10'          | 2,4 DNT  | <0.2  |
| PF-36A-N-25'          | HMX      | 0.5   |
| PF-36A-N-25'          | RDX      | 0.9   |
| PF-36A-N-25'          | TETRYL   | <0.4  |
| PF-36A-N-25'          | TNT      | <0.4  |
| PF-36A-N-25'          | 2,4 DNT  | <0.2  |
| PF-36A-N-50'          | HMX      | <0.3  |
| PF-36A-N-50'          | RDX      | <0.3  |
| PF-36A-N-50'          | TETRYL   | <0.4  |
| PF-36A-N-50'          | TNT      | <0.4  |
| PF-36A-N-50'          | 2,4 DNT  | 11.6  |
| PF-36A-N-100'         | HMX      | <0.3  |
| PF-36A-N-100'         | RDX      | <0.3  |
| PF-36A-N-100'         | TETRYL   | <0.4  |
| PF-36A-N-100'         | TNT      | <0.4  |
| PF-36A-N-100'         | 2,4 DNT  | 0.2   |
| PF-36A-S-5'           | HMX      | 2.6   |
| PF-36A-S-5'           | RDX      | 21    |
| PF-36A-S-5'           | TETRYL   | <0.4  |
| PF-36A-S-5'           | TNT      | <0.4  |
| PF-36A-S-5'           | 2,4 DNT  | 1.1   |
| PF-36A-S-10'          | HMX      | <0.3  |
| PF-36A-S-10'          | RDX      | <0.3  |
| PF-36A-S-10'          | TETRYL   | <0.4  |
| PF-36A-S-10'          | TNT      | <0.4  |
| PF-36A-S-10'          | 2,4 DNT  | 2.7   |
| PF-36A-S-25'          | HMX      | 0.8   |
| PF-36A-S-25'          | RDX      | <0.3  |
| PF-36A-S-25'          | TETRYL   | <0.4  |
| PF-36A-S-25'          | TNT      | <0.4  |
| PF-36A-S-25'          | 2,4 DNT  | 0.4   |
| PF-36A-S-50'          | HMX      | 0.3   |
| PF-36A-S-50'          | RDX      | <0.3  |
| PF-36A-S-50'          | TETRYL   | <0.4  |
| PF-36A-S-50'          | TNT      | 2.6   |
| PF-36A-S-50'          | 2,4 DNT  | 2     |
| PF-36A-S-100'         | HMX      | <0.3  |
| PF-36A-S-100'         | RDX      | <0.3  |
| PF-36A-S-100'         | TETRYL   | <0.4  |
| PF-36A-S-100'         | TNT      | 2.2   |

TNT.

| (                     | 36B)     |       |     |
|-----------------------|----------|-------|-----|
| SAMPLE IDENTIFICATION | COMPOUND | UG/GR |     |
| PF-36A-S-100'         | 2,4 DNT  | 2     |     |
| PF-36B-W-20'          | HMX      | 0.7   |     |
| PF-36B-W-20'          | RDX      | <0.3  | -   |
| PF-36B-W-20'          | TETRYL   | <0.4  | -   |
| PF-36B-W-20'          | TNT      | <0.4  | -   |
| PF-36B-W-20'          | 2,4 DNT  | <0.2  | -   |
| PF-36B-W-40'          | HMX      | <0.3  | -1  |
| PF-36B-W-40'          | RDX      | <0.3  | -   |
| PF-36B-W-40'          | TETRYL   | <0.4  |     |
| PF-30B-W-40           | TNT      | <0.4  | 4   |
| PF-30B-W-40'          | 2,4 DNT  | <0.2  |     |
| PF-30B-W-60           | HMX      | 1.3   | ι ι |
| PF-368-W-60           | RDX      | <0.3  |     |
| PF-30B-W-60           | TETRYL   | <0.4  |     |
| PF-30B-W-60           | TNT      | <0.4  |     |
| PF-30B-W-60           | 2,4 DNT  | <0.2  |     |
| PF-30B-W-100          | HMX      | <0.3  | -   |
| PF-30B-W-100          | RDX      | 1.3   |     |
| PF-30B-W-100          | TETRYL   | <0.4  |     |
| PF-30B-W-100          |          | <0.4  |     |
| PF-30B-W-100          | 2,4 DNT  | <0.2  |     |
| PE-36B W/ 150         | HMX      | <0.3  |     |
| PE-36B-W-150          | HDX      | 0.4   | ]   |
| PE-268 W 150          | IEIRYL   | <0.4  | ]   |
| PE-36B-W-150          |          | <0.4  | ]   |
| PE-368-5-20'          | 2,4 DN1  | <0.2  |     |
| PE-368-5-20           | HMX      | <0.3  | ]   |
| PE-368 E 201          | HDX      | <0.3  |     |
| PE-368-E-20           | IEIRYL   | <0.4  |     |
| PE-36B-E-20           |          | <0.4  |     |
| PE-368-5-40           | 2,4 DN I | <0.2  |     |
| PE-368-E 40'          | HMX      | <0.3  |     |
| PE-368-E-40           |          | <0.3  | ]   |
| PE-368-5-40           |          | <0.4  |     |
| PE-368-5-40           |          | <0.4  |     |
|                       |          | <0.2  | 1   |
|                       | HMX      | <0.3  |     |
|                       | HDX      | <0.3  |     |
|                       |          | <0.4  | 1   |
|                       |          | <0.4  | 1   |
| FF-300-E-0U           | 2.4 DNT  | 02    | 1   |

| SAMPLE IDENTIFICATION | COMPOUND | UG/GR          |
|-----------------------|----------|----------------|
| PF-36B-E-100'         | HMX      | <0.3           |
| PF-36B-E-100'         | RDX      | <0.3           |
| PF-36B-E-100'         | TETRYL   | <0.4           |
| PF-36B-E-100'         | TNT      | <0.4           |
| PF-36B-E-100'         | 2,4 DNT  | <0.2           |
| PF-36B-E-150'         | HMX      | <0.3           |
| PF-36B-E-150'         | RDX      | <0.3           |
| PF-36B-E-150'         | TETRYL   | <0.4           |
| PF-36B-E-150'         | TNT      | <0.4           |
| PF-36B-E-150'         | 2,4 DNT  | <0.2           |
| PF-36B-N-20'          | HMX      | <0.3           |
| PF-36B-N-20'          | RDX      | <0.3           |
| PF-36B-N-20'          | TETRYL   | <0.4           |
| PF-36B-N-20'          | TNT      | <0.4           |
| PF-36B-N-20'          | 2,4 DNT  | <0.2           |
| PF-36B-N-40'          | HMX      | 0.9            |
| PF-36B-N-40'          | RDX      | <0.3           |
| PF-36B-N-40'          | TETRYL   | <04            |
| PF-36B-N-40'          | TNT      | <04            |
| PF-36B-N-40'          | 2.4 DNT  | <02            |
| PF-36B-N-60'          | HMX      | 40.3           |
| PF-36B-N-60'          | BDX      |                |
| PF-36B-N-60'          | TETRYL   | <u> </u>       |
| PF-36B-N-60'          | TNT      |                |
| PF-36B-N-60'          | 2.4 DNT  |                |
| PF-36B-N-100'         | HMX      | 0.2            |
| PF-36B-N-100'         | BDX      | 0.5            |
| PF-36B-N-100'         | TETRY    |                |
| PF-36B-N-100'         | TNT      | 0.4            |
| PF-36B-N-100'         | 24 DNT   | 0.3            |
| PF-36B-N-150'         | HMX      | 0.2            |
| PF-36B-N-150'         | BDX      | 0.3            |
| PF-36B-N-150'         | TETRY    | <0.3           |
| PF-36B-N-150'         | TNT      | <u> </u>       |
| PF-36B-N-150'         |          | <u> </u>       |
| PF-36B-S-20'          |          | <u>&lt;0.2</u> |
| PF-36B-S-20'          | BDY      | <0.3           |
| PF-36B-S-20'          | TETRVI   |                |
| PF-36B-S-20'          |          | < <u>(</u> ,4  |
| PF-36B-S-20'          |          | <0.4           |
| PF-36B-S-40'          |          | <0.2           |
| 11-000-0-40           |          | <0.3           |

|                 | DDY      |          |
|-----------------|----------|----------|
| PF-30B-S-40'    |          | 0.7      |
| PF-36B-S-40'    | TETRYL   | <0.4     |
| PF-36B-S-40'    | TNT      | <0.4     |
| PF-36B-S-40'    | 2,4 DNT  | <02      |
| PF-36B-S-60'    | HMX      | 0.4      |
| PF-36B-S-60'    | RDX      | 0.9      |
| PF-36B-S-60'    | TETRYL   |          |
| PF-36B-S-60'    | TNT      |          |
| PF-36B-S-60'    | 2,4 DNT  |          |
| PF-36B-S-100'   | HMX      | 13       |
| PF-36B-S-100'   | RDX      | 1.5      |
| PF-36B-S-100'   | TETRYL   |          |
| PF-36B-S-100    | TNT      |          |
| PF-36B-S-100    | 2,4 DNT  |          |
| PF-36B-S-150'   | HMX      |          |
| PF-36B-S-150'   | RDX      |          |
| PF-36B-S-150'   | TETRYL   |          |
| PF-36B-S-150'   | TNT      |          |
| PF-36B-S-150    | 2.4 DNT  | <0.4     |
| PF-36B SEDIMENT | HMX      | <0.2     |
| PF-36B SEDIMENT | BDX      | <0.3     |
| PF-36B SEDIMENT | TETRYL   | <0.3     |
| PF-36B SEDIMENT | TNT      | <0.4     |
| PF-36B SEDIMENT | 24 DNT   | <0.4     |
| PF-36B-0-0      | HMX      | <0.2     |
| PF-36B-0-0      | BDX      | <0.3     |
| PF-36B-0-0      | TETRY    | <0.3     |
| PF-36B-0-0      | TNT      | <0.4     |
| PF-36B-0-0      | 2 4 DNT  | <0.4     |
|                 | COMPOUND | UG/ML    |
| PF-36B-RINSEATE | HMX      | <0.3     |
| PF-36B-RINSEATE | RDX      | <03      |
| PF-36B-RINSEATE | TETRYL   | <04      |
| PF-36B-RINSEATE | TNT      | <03      |
| PF-36B-RINSEATE | 2,4 DNT  | <u> </u> |
| PF-36A-RINSEATE | HMX      | <0.2     |
| PF-36A-RINSEATE | RDX      | <u> </u> |
| PF-36A-RINSEATE | TETRYL   |          |
| PF-36A-RINSEATE | TNT      |          |
| PF-36A-RINSEATE | 2.4 DNT  |          |

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| EXPLOSIVE | RESULT | UNITS | QC VALUE | % RECOVERY |
|-----------|--------|-------|----------|------------|
| HMX       | 11.2   | µg/g  | 10.9     | 103        |
| RDX       | 9.3    | µg/g  | 10.0     | 93         |
| TETRYL    | 11.6   | µg/g  | 11.4     | 102        |
| TNT       | 11.4   | µg/g  | 10.5     | 101        |
| 2,4 DNT   | 12.9   | µg/g  | 11.7     | 110        |
| HMX       | 9.8    | µg/ml | 9.8      | 100        |
| RDX       | 11.2   | µg/mi | 11.2     | 100        |
| TETRYL    | 12.6   | µg/ml | 12.3     | 102        |
| TNT       | 9.3    | µg/ml | 8.7      | 107        |
| 2,4 DNT   | 15.4   | µg/ml | 13.4     | 115        |

 TABLE 1

 Recovery data from quality control samples

# TABLE 2

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# Dection Limits

| COMPOUND | µg/g |  |
|----------|------|--|
| HMX      | <0.3 |  |
| RDX      | <0.3 |  |
| TETRYL   | <0.4 |  |
| TNT      | <0.4 |  |
| 2,4 DNT  | <0.2 |  |

| 's .            |             |          | BEGIN | END    | DEPTH      |                 | DILUTION  | SAMPLE  | REPORTING | LAB  | LANL |
|-----------------|-------------|----------|-------|--------|------------|-----------------|-----------|---------|-----------|------|------|
|                 | PRS ID LOCA | ATION ID | DEPTH | DEPTH  | UNITS      | ANALYTE NAME    | FACTOR QC | RESULTS | UNITS     | QUAL | QUAL |
|                 | 36-005 36   | -3051    | 0     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     | U    |      |
|                 | 36-005 36   | 6-3050   | 0     | 6      | IN         | Acenaphthene    |           | 360     | UG/KG     | Ŭ    |      |
|                 | 36-005 36   | 6-3050   | 0     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     | ŭ    |      |
|                 | 36-005 36   | 6-3049   | 0     | 6      | IN         | Acenaphthene    |           | 340     | LIG/KG    | ŭ    |      |
|                 | 36-005 36   | 3-3048   | Ő     | õ      | IN         | Acenanhthene    |           | 360     | UG/KG     |      |      |
|                 | 36-005 36   | 3047     | 0     | 6      | IN         | Aconaphthono    |           | 300     |           |      |      |
|                 | 30-005 30   | 5-3047   | 0     | 0      | IN         | Acenaphinene    |           | 390     | UG/KG     | 0    |      |
|                 | 30-005 30   | 0045     | 0     | 6      | lin        | Acenaphinene    |           | 360     | UG/KG     | U    |      |
|                 | 36-005 36   | -3045    | 0     | 6      | IN         | Acenaphthene    |           | 380     | UG/KG     | U    |      |
|                 | 36-005 36   | 5-3044   | 0     | 6      | IN         | Acenaphthene    |           | 380     | UG/KG     | U    |      |
|                 | 36-005 36   | 6-3043   | 0     | 6      | IN         | Acenaphthene    |           | 360     | UG/KG     | U    |      |
|                 | 36-005 36   | 6-3042   | 0     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     | υ    |      |
|                 | 36-005 36   | 5-3042   | 0     | 6      | IN         | Acenaphthene    |           | 340     | UG/KG     | U    |      |
|                 | 36-005 36   | -3041    | 0     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     | υ    |      |
|                 | 36-005 36   | -3040    | 0     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     | U    |      |
|                 | 36-005 36   | -3039    | 0     | 6      | IN         | Acenaphthene    |           | 340     | UG/KG     | U    |      |
|                 | 36-005 36   | -3038    | 0     | 6      | IN         | Acenaphthene    |           | 360     | UG/KG     | U    |      |
|                 | 36-005 36   | -3037    | 0     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     | ū    |      |
|                 | 36-005 36   | -3036    | 0     | 6      | IN         | Acenaphthene    |           | 340     | UG/KG     | ŭ    |      |
|                 | 36-005 36   | -3035    | ō     | 6      | IN         | Acenanothene    |           | 350     | LIG/KG    | ŭ    |      |
|                 | 36-005 36   | -3034    | ñ     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     |      |      |
|                 | 36-005 36   | -3034    | 0     | 6      | IN         | Aconaphthono    |           | 350     |           |      |      |
|                 | 36.005 30   | 2024     | ő     | 6      | IN IN      | Acenaphinene    |           | 350     | UG/KG     | 0    |      |
|                 | 30-005 30   | -3026    | 0     | 0      | HN IN      | Acenaphinene    |           | 140000  | UG/KG     | U    |      |
|                 | 36-005 36   | -3025    | 0     | 6      | IN         | Acenaphthene    |           | 360     | UG/KG     | U    |      |
|                 | 36-005 36   | -3024    | 0     | 6      | IN         | Acenaphthene    |           | 400     | UG/KG     | U    |      |
|                 | 36-005 36   | -3023    | 0     | 6      | IN         | Acenaphthene    |           | 370     | UG/KG     | U    |      |
|                 | 36-005 36   | -3022    | 0     | 6      | IN         | Acenaphthene    |           | 360     | UG/KG     | U    |      |
|                 | 36-005 36   | -3021    | 0     | 6      | IN         | Acenaphthene    |           | 400     | UG/KG     | U    |      |
|                 | 36-005 36   | -3020    | 0     | 6      | IN         | Acenaphthene    |           | 370     | UG/KG     | U    |      |
|                 | 36-005 36   | -3019    | 0     | 6      | IN         | Acenaphthene    |           | 370     | UG/KG     | U    |      |
|                 | 36-005 36   | -3018    | 0     | 6      | IN         | Acenaphthene    |           | 350     | UG/KG     | U    |      |
|                 | 36-005 36   | -3018    | 0     | 6      | IN         | Acenaphthene    |           | 370     | UG/KG     | Ū.   |      |
| . 19 T          | 36-005 36   | -3051    | 0     | 6      | IN         | Acenaphthylene  |           | 350     | UG/KG     | ŭ    |      |
|                 | 36-005 36   | -3050    | 0     | 6      | IN         | Acenaphthylene  |           | 360     | UG/KG     | 11   |      |
| Million Control | 36-005 36   | -3050    | ō     | ĥ      | IN         | Acenaphthylene  |           | 350     | UG/KG     |      |      |
|                 | 36-005 36   | -3049    | õ     | ē      | IN         | Acenaphthylene  |           | 340     | UG/KG     |      |      |
|                 | 36-005 36   | -2049    | õ     | 6      | IN         | Accessebtbuless |           | 340     |           | 0    |      |
|                 | 30-005 30   | 2045     | 0     | 6      | HN<br>INI  | Acenaphinylene  |           | 360     | UG/KG     | 0    |      |
|                 | 36-005 36   | -3047    | 0     | 6      | IN         | Acenaphthylene  |           | 390     | UG/KG     | U    |      |
|                 | 30-005 30   | -3046    | 0     | ь      | IN         | Acenaphtnylene  |           | 360     | UG/KG '   | U    |      |
|                 | 36-005 36   | -3045    | 0     | 6      | IN         | Acenaphthylene  |           | 380     | UG/KG     | U    |      |
|                 | 36-005 36   | -3044    | 0     | 6      | IN         | Acenaphthylene  |           | 380     | UG/KG     | U    |      |
|                 | 36-005 36   | -3043    | 0     | 6      | IN         | Acenaphthylene  |           | 360     | UG/KG     | U    |      |
|                 | 36-005 36   | -3042    | 0     | 6      | IN         | Acenaphthylene  |           | 350     | UG/KG     | U    |      |
|                 | 36-005 36   | -3042    | 0     | 6      | IN         | Acenaphthylene  |           | 340     | UG/KG     | U    |      |
|                 | 36-005 36   | -3041    | 0     | 6      | IN         | Acenaphthylene  |           | 350     | UG/KG     | U    |      |
|                 | 36-005 36   | -3040    | 0     | 6      | IN         | Acenaphthylene  |           | 350     | UG/KG     | ŭ    |      |
|                 | 36-005 36   | -3039    | 0     | 6      | IN         | Acenaphthylene  |           | 340     | UG/KG     | ŭ    |      |
|                 | 36-005 36   | -3038    | 0     | 6      | IN         | Acenaphthylene  |           | 360     |           | ŭ    |      |
|                 | 36-005 36   | -3037    | õ     | 6      | IN         | Acenaphthylene  |           | 350     | UG/KG     |      |      |
|                 | 36-005 36   | -3036    | ň     | 6      | IN         | Aconaphthylono  |           | 350     |           |      |      |
|                 | 36-005 36   | -3035    | õ     | 6      | IN         | Aconophthylene  |           | 340     |           |      |      |
|                 | 36.005 36   | -2024    | 0     | 6      | IN IN      |                 |           | 350     | UG/KG     | U    |      |
|                 | 30-005 30   | -3034    | 0     | 0      | HN IN      | Acenaphthylene  |           | 350     | UG/KG     | U    |      |
|                 | 36-005 36   | -3034    | 0     | 6      | IN         | Acenaphthylene  |           | 350     | UG/KG     | U    |      |
|                 | 36-005 36   | -3026    | 0     | 6      | IN         | Acenaphthylene  |           | 140000  | UG/KG     | U    |      |
|                 | 36-005 36   | -3025    | 0     | 6      | IN         | Acenaphthylene  |           | 360     | UG/KG     | U    |      |
|                 | 36-005 36   | -3024    | 0     | 6      | IN         | Acenaphthylene  |           | 400     | UG/KG     | U    |      |
|                 | 36-005 36-  | -3023    | 0     | 6      | IN         | Acenaphthylene  |           | 370     | UG/KG     | U    |      |
|                 | 36-005 36-  | -3022    | 0     | 6      | IN         | Acenaphthylene  |           | 360     | UG/KG     | ū    |      |
|                 | 36-005 36-  | -3021    | 0     | 6      | IN         | Acenaphthylene  |           | 400     | UG/KG     | ŭ    |      |
|                 | 36-005 36   | -3020    | 0     | 6      | IN         | Acenanhthvlene  |           | 370     | UG/KG     |      |      |
|                 | 36-005 36   | -3019    | õ     | 6      | IN         | Acenanhthylene  |           | 370     | LIGKG     |      |      |
|                 | 36-005 26   | -3018    | ň     | ě      | IN         | Aconaptibulance |           | 370     |           |      |      |
|                 | 36-005 30   | -0010    | ~     | 6      | IIN<br>IAI | Acenaphtnylene  |           | 350     | UG/KG     | U    |      |
|                 | 30-005 36   | -3018    | 0     | o<br>c | IN         | Acenaphinyiéne  |           | 370     | UG/KG     | U    |      |
|                 | 30-005 36   | -3051    | U     | 6      | IN         | Acetone         |           | 22      | UG/KG     | U    |      |
|                 | 36-005 36   | -3050    | 0     | 6      | IN         | Acetone         |           | 22      | UG/KG     | U    |      |
|                 | 36-005 36-  | -3050    | 0     | 6      | IN         | Acetone         |           | 33      | UG/KG     | U    |      |
|                 | 36-005 36   | -3049    | 0     | 6      | IN         | Acetone         |           | 22      | UG/KG     | υ    |      |
|                 | 36-005 36-  | -3048    | 0     | 6      | IN         | Acetone         |           | 22      | UG/KG     | U    |      |
|                 | 36-005 36-  | -3047    | 0     | 6      | IN         | Acetone         |           | 24      | UG/KG     | ū    |      |
|                 | 36-005 36-  | -3046    | 0     | 6      | IN         | Acetone         |           | 22      | UG/KG     | ŭ    |      |
| -               | 36-005 36-  | -3045    | 0     | 6      | IN         | Acetone         |           | 22      | UG/KG     |      |      |
|                 |             |          | -     | •      |            | 10010116        |           |         | Jana      | 0    |      |

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| 36-005 | 36-3044 | 0      | 6 | IN       | Acetone                       | 22    | UG/KG  | U   |
|--------|---------|--------|---|----------|-------------------------------|-------|--------|-----|
| 36-005 | 36-3043 | 0      | 6 | IN       | Acetone                       | 20    | UG/KG  | U   |
| 36 005 | 26 2042 | 0      | 6 | IN       | Acetone                       | 26    | UG/KG  | U   |
| 30-005 | 00-0042 | ő      | é | IN       | Acetone                       | 20    | UG/KG  | U   |
| 36-005 | 30-3042 | 0      | 0 |          | Acetone                       | 10    | UG/KG  |     |
| 36-005 | 36-3041 | 0      | ь | IN       | Acelone                       | 10    | UC/KG  | ŭ   |
| 36-005 | 36-3040 | 0      | 6 | IN       | Acetone                       | 10    |        |     |
| 36-005 | 36-3039 | 0      | 6 | IN       | Acetone                       | 10    | UG/KG  | U   |
| 36-005 | 36-3038 | 0      | 6 | IN       | Acetone                       | 11    | UG/KG  | U   |
| 36-005 | 36-3037 | 0      | 6 | IN       | Acetone                       | 10    | UG/KG  | U   |
| 36-005 | 36-3036 | Ô      | 6 | IN       | Acetone                       | 11    | UG/KG  | U   |
| 30-005 | 26 2025 | 0      | 6 | IN       | Acetone                       | 11    | UG/KG  | U.  |
| 36-005 | 30-3035 | 0      | 6 | IN IN    | Acetone                       | 11    |        | ũ   |
| 36-005 | 36-3034 | 0      | 0 | IN       | Acetorie                      | 10    | UC/KC  |     |
| 36-005 | 36-3034 | 0      | 6 | IN       | Acetone                       | 10    |        | 0   |
| 36-005 | 36-3026 | 0      | 6 | IN       | Acetone                       | 520   | UG/KG  |     |
| 36-005 | 36-3025 | 0      | 6 | IN       | Acetone                       | 20    | UG/KG  | U   |
| 36-005 | 36-3024 | 0      | 6 | IN       | Acetone                       | 58    | UG/KG  | U   |
| 36-005 | 36-3023 | 0      | 6 | IN       | Acetone                       | 22    | UG/KG  | U   |
| 36.005 | 26 2022 | ő      | 6 | IN       | Acetone                       | 36    | UG/KG  | U   |
| 36-005 | 30-3022 | 0      | 6 | IN       | Acetone                       | 24    | LIG/KG |     |
| 36-005 | 36-3021 | 0      | 0 | IIN      | Acetone                       | 24    |        |     |
| 36-005 | 36-3020 | 0      | 6 | IN       | Acetone                       | 22    |        |     |
| 36-005 | 36-3019 | 0      | 6 | IN       | Acetone                       | 22    | UG/KG  | U   |
| 36-005 | 36-3018 | 0      | 6 | IN       | Acetone                       | 22    | UG/KG  | U   |
| 36-005 | 36-3018 | 0      | 6 | IN       | Acetone                       | 94    | UG/KG  | U   |
| 36-005 | NΔ      |        |   |          | Aluminum                      | 1560  | MG/KG  | J   |
| 26.005 | 26 2051 | 0      | 6 | IN       | Aluminum                      | 1790  | MG/KG  | L   |
| 36-005 | 30-3051 | 0      | 0 | 115      | Aluminum                      | 6210  | MG/KG  | 1   |
| 36-005 | 36-3050 | 0      | ь | IN       | Aluminum                      | 0310  | Marka  |     |
| 36-005 | 36-3050 | 0      | 6 | IN       | Aluminum                      | 6530  | MG/KG  | J   |
| 36-005 | 36-3049 | 0      | 6 | IN       | Aluminum                      | 1930  | MG/KG  | J   |
| 36-005 | 36-3048 | 0      | 6 | IN       | Aluminum                      | 10500 | MG/KG  | J   |
| 36-005 | 36-3047 | 0      | 6 | IN       | Aluminum                      | 5220  | MG/KG  | J   |
| 36 005 | 36-3046 | 0      | 6 | IN       | Aluminum                      | 2850  | MG/KG  | J   |
| 30-005 | 30-3040 | Ő      | é | IN       | Aluminum                      | 12000 | MG/KG  |     |
| 36-005 | 36-3045 | 0      | 0 | IN       | Aluminum                      | F2000 | MG/KG  |     |
| 36-005 | 36-3044 | 0      | 6 | IN       | Aluminum                      | 5230  | MG/KG  | J   |
| 36-005 | 36-3043 | 0      | 6 | IN       | Aluminum                      | 2240  | MG/KG  | J   |
| 36-005 | 36-3042 | 0      | 6 | IN       | Aluminum                      | 3850  | MG/KG  | J   |
| 36-005 | 36-3042 | 0      | 6 | IN       | Aluminum                      | 4600  | MG/KG  | J   |
| 36-005 | 36-3041 | 0      | 6 | IN       | Aluminum                      | 7630  | MG/KG  |     |
| 36-005 | 36-3040 | õ      | 6 | IN       | Aluminum                      | 7900  | MG/KG  |     |
| 30-005 | 30-3040 | 0      | 6 | IN       | Aluminum                      | 5280  | MG/KG  |     |
| 36-005 | 30-3039 | 0      | 0 | 1114     | Aluminan                      | 10000 | Marka  |     |
| 36-005 | 36-3038 | 0      | 6 | IN       | Aluminum                      | 10600 | MG/KG  |     |
| 36-005 | 36-3037 | 0      | 6 | IN       | Aluminum                      | 8270  | MG/KG  |     |
| 36-005 | 36-3036 | 0      | 6 | IN       | Aluminum                      | 11100 | MG/KG  |     |
| 36-005 | 36-3035 | 0      | 6 | IN       | Aluminum                      | 15400 | MG/KG  |     |
| 36-005 | 36-3034 | 0      | 6 | IN       | Aluminum                      | 7590  | MG/KG  |     |
| 26 005 | 26 2024 | õ      | ē | IN       | Aluminum                      | 10400 | MG/KG  |     |
| 36-005 | 30-3034 | 0      | 0 | 11       | Aluminum                      | 5050  | MG/KG  |     |
| 36-005 | 36-3026 | 0      | D | IN       | Aluminum                      | 5050  |        |     |
| 36-005 | 36-3025 | 0      | 6 | IN       | Aluminum                      | 2690  | MG/KG  | J   |
| 36-005 | 36-3024 | 0      | 6 | IN       | Aluminum                      | 4690  | MG/KG  | J   |
| 36-005 | 36-3023 | 0      | 6 | IN       | Aluminum                      | 5300  | MG/KG  | J   |
| 36-005 | 36-3022 | 0      | 6 | IN       | Aluminum                      | 3870  | MG/KG  | J   |
| 36-005 | 36-3021 | 0      | 6 | IN       | Aluminum                      | 4080  | MG/KG  | J   |
| 00-005 | 26 2021 | õ      | é | INI      | Aluminum                      | 3860  | MG/KG  |     |
| 36-005 | 30-3020 | 0      | 0 | HN N     | Aluminum                      | 3000  | MC/KC  | , i |
| 36-005 | 36-3019 | U      | 6 | IN       | Aluminum                      | 3930  |        |     |
| 36-005 | 36-3018 | 0      | 6 | IN       | Aluminum                      | 4210  | MG/KG  | J   |
| 36-005 | 36-3018 | 0      | 6 | IN       | Aluminum                      | 2990  | MG/KG  | J   |
| 36-005 | 36-3051 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.09  | UG/G   | U   |
| 36-005 | 36-3050 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.092 | UG/G   | U   |
| 36-005 | 36-3050 | Õ      | 6 | IN       | Amino-2.6-dinitrotoluene[4-]  | 0.092 | UG/G   | U   |
| 26 005 | 26 2040 | õ      | ě | IN       | Amino-2 6-dipitrotoluene[4-]  | 0.09  | LIG/G  | ů   |
| 30-005 | 30-3049 | 0      | 0 | 111      | Amino 2,0-dinitrotoluono[4]   | 0.00  | UG/G   | ŭ   |
| 36-005 | 36-3048 | 0      | ь | líN      | Amino-2,6-dinitrotoluene[4-]  | 0.093 | UG/G   |     |
| 36-005 | 36-3047 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.092 | UG/G   | 0   |
| 36-005 | 36-3046 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.091 | UG/G   | U   |
| 36-005 | 36-3045 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.094 | UG/G   | U   |
| 36-005 | 36-3044 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.092 | UG/G   | U   |
| 36-005 | 36-2043 | ñ      | 6 | IN       | Amino-2.6-dinitrotoluene[4-]  | 0.091 | UG/G   | u   |
| 00-000 | 00-0040 | ~      | 6 | 11.1     | Amino 2,6 dinitrotoluono[4]   | 0.007 | 116/6  |     |
| 30-005 | 30-3042 | U      | 0 | IIN IS I |                               | 0.092 |        |     |
| 36-005 | 36-3042 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.092 | UG/G   | U   |
| 36-005 | 36-3041 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.091 | UG/G   | U   |
| 36-005 | 36-3040 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.092 | UG/G   | U   |
| 36-005 | 36-3039 | 0      | 6 | IN       | Amino-2,6-dinitrotoluenel4-1  | 0.091 | UG/G   | U   |
| 36-005 | 36-3038 | n<br>n | Â | IN       | Amino-2.6-dinitrotoluene[4-]  | 0.091 | UG/G   | ū   |
| 36.005 | 26 2027 | ň      | é | INI      | Amino-2 6-dinitrotoluono[4-]  | 0.001 |        | й   |
| 30-005 | 30-303/ | 0      | 0 |          | Amino 2.6 disitrately ====[4] | 0.001 |        |     |
| 36-005 | 36-3036 | 0      | 6 | IN       | Ammo-2,o-ammtrotoluene[4-]    | 0.091 | 00/0   |     |
| 36-005 | 36-3035 | 0      | 6 | IN       | Amino-2,6-dinitrotoluene[4-]  | 0.093 | UG/G   | U   |

| 36-005 | 36-3034  | 0      | 6 | IN      | Amino-2,6-dinitrotoluene[4-]          | 0.091  | UG/G   | U       |
|--------|----------|--------|---|---------|---------------------------------------|--------|--------|---------|
| 36-005 | 36-3034  | 0      | 6 | IN      | Amino-2 6-dinitrotoluene[4-]          | 0.091  | UG/G   | Ð       |
| 26.005 | 26 2026  | 0      | Ē | 101     | Amine 2.6 disitesteluono[4]           | 0.000  | LIGIO  | , ŭ     |
| 30-005 | 00-0020  | 0      | 0 | HN .    | Annino-2,6-dililitototoene[4-]        | 0.092  |        |         |
| 36-005 | 36-3025  | 0      | ъ | IN      | Amino-2,6-dinitrotoluene[4-]          | 0.09   | UG/G   | 0       |
| 36-005 | 36-3024  | 0      | 6 | IN      | Amino-2,6-dinitrotoluene[4-]          | 0.091  | UG/G   | υ       |
| 36-005 | 36-3023  | 0      | 6 | IN      | Amino-2.6-dinitrotoluene[4-]          | 0.091  | UG/G   | υ       |
| 36-005 | 36-3022  | Ō      | Ē | INI     | Amino 2.6 dinitrotoluone[4.]          | 0.001  | LIG/G  |         |
| 30-005 | 30-3022  | 0      | 0 | IN      | Annino-2,6-dimitoloidene[4-]          | 0.091  | UG/G   | 0       |
| 36-005 | 36-3021  | 0      | 6 | IN      | Amino-2,6-dinitrotoluene[4-]          | 0.091  | UG/G   | U       |
| 36-005 | 36-3020  | 0      | 6 | IN      | Amino-2,6-dinitrotoluene[4-]          | 0.091  | UG/G   | U       |
| 36-005 | 36-3019  | 0      | 6 | IN      | Amino-2 6-dinitrotoluene[4-]          | 0.091  | LIG/G  |         |
| 00-000 | 00-0010  | 0      | 0 |         |                                       | 0.031  | 00/0   |         |
| 36-005 | 36-3018  | 0      | 6 | IN      | Amino-2,6-dinitrotoluene[4-]          | 0.091  | UG/G   | U       |
| 36-005 | 36-3018  | 0      | 6 | IN      | Amino-2,6-dinitrotoluene[4-]          | 0.091  | UG/G   | U       |
| 36-005 | 36-3051  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene[2-]          | 0.073  | UG/G   | U.      |
| 26 005 | 26 2050  | 0      | ē | HA I    | Amino 4.6 dinitrotoluono[2]           | 0.075  |        | ŭ       |
| 36-005 | 30-3030  | 0      | 0 | HN      | Amino-4,6-dimitrotoluene[2-]          | 0.075  | UG/G   | U       |
| 36-005 | 36-3050  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.075  | UG/G   | U       |
| 36-005 | 36-3049  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.073  | UG/G   | U       |
| 36-005 | 36-3048  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene[2-]          | 0.076  | LIG/G  | 11      |
| 26 005 | 26 2047  | õ      | 6 | INI     | Amine 1.6 dinitrotoluono[2]           | 0.075  | 100/0  |         |
| 30-005 | 30-3047  | U      | 0 | IIN     | Ammo-4,6-dimitrotoluene[2-]           | 0.075  | 00/0   | 0       |
| 36-005 | 36-3046  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.074  | UG/G   | U       |
| 36-005 | 36-3045  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene[2-]          | 0.077  | UG/G   | U       |
| 36-005 | 36-3044  | 0      | 6 | IN      | Amino-4 6-dinitrotoluenel2-1          | 0.075  | LIG/G  |         |
| 00 000 | 00 0040  | ő      | č | 154     | Amino 4,0 dinitrotolucino[2]          | 0.070  |        |         |
| 30-005 | 30-3043  | 0      | ю | IIN     | Amino-4,6-dinitrotoluene[2-]          | 0.074  | UG/G   | U       |
| 36-005 | 36-3042  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.075  | UG/G   | U       |
| 36-005 | 36-3042  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene[2-]          | 0.075  | UG/G   | U.      |
| 26 005 | 26 2041  | 0      | Ē | INI     | Amino 4.6 dinitrotoluono[2]           | 0.074  |        | ŭ       |
| 30-005 | 30-3041  | 0      | 0 |         | Annino-4,0-dinitrototuene(2-)         | 0.074  | UG/G   | 0       |
| 36-005 | 36-3040  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.075  | UG/G   | U       |
| 36-005 | 36-3039  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.074  | UG/G   | U       |
| 36-005 | 36-3038  | 0      | 6 | IN      | Amino-4 6-dinitrotokiene[2-]          | 0.074  | LIG/G  |         |
| 20 005 | 00 0000  | õ      | č | 151     | Amino 4,0 dinitrotokono[2]            | 0.074  | 00/0   |         |
| 36-005 | 30-3037  | 0      | 0 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.074  | UG/G   | U       |
| 36-005 | 36-3036  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.074  | UG/G   | U       |
| 36-005 | 36-3035  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene[2-]          | 0.076  | UG/G   | U       |
| 36-005 | 36-3034  | Λ      | 6 | IM      | Amino-4 6-dinitrotoluene[2-]          | 0.074  | LIG/G  | т.<br>П |
| 00 000 | 00 0004  | ő      | č |         |                                       | 0.074  | 00/0   |         |
| 30-005 | 30-3034  | U      | 0 | IIN     | Amino-4,6-dinitrotoluene[2-]          | 0.074  | UG/G   | U       |
| 36-005 | 36-3026  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.074  | UG/G   | U       |
| 36-005 | 36-3025  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene[2-]          | 0.075  | UG/G   | U       |
| 36-005 | 36-3024  | Λ      | 6 | IN      | Amino-4.6-dinitrotoluenei2-1          | 0.076  | LIG/G  |         |
| 00 005 | 00 0024  | õ      | ő | 111     | Amino 4,0 distante luce a (0.)        | 0.070  | 00/0   |         |
| 36-005 | 36-3023  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-j          | 0.076  | UG/G   | U       |
| 36-005 | 36-3022  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.076  | UG/G   | υ       |
| 36-005 | 36-3021  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene/2-1          | 0.076  | UG/G   | U       |
| 36-005 | 36-3020  | Ō      | 6 | IN      | Amino A 6-dinitratoluopo(2.)          | 0.075  |        |         |
| 00-005 | 00-0020  | 0      | 0 | 114     | Amino-4,0-dinitrotoidene[2-]          | 0.075  | 00/0   | 0       |
| 36-005 | 36-3019  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.076  | UG/G   | υ       |
| 36-005 | 36-3018  | 0      | 6 | IN      | Amino-4,6-dinitrotoluene[2-]          | 0.075  | UG/G   | υ       |
| 36-005 | 36-3018  | 0      | 6 | IN      | Amino-4.6-dinitrotoluene[2-]          | 0.075  | UG/G   | 11      |
| 36-005 | 26-2051  | n<br>N | Ē | IM      | Anilino                               | 350    |        | ŭ       |
| 30-003 | 30-3031  | 0      | 0 | 111     |                                       | 350    | UG/KG  | 0       |
| 36-005 | 36-3050  | 0      | 6 | IN      | Aniline                               | 360    | UG/KG  | U       |
| 36-005 | 36-3050  | 0      | 6 | IN      | Aniline                               | 350    | UG/KG  | U       |
| 36-005 | 36-3049  | 0      | 6 | IN      | Aniline                               | 340    | UG/KG  | 11      |
| 26 005 | 26 2049  | 0      | Ē | INI     | Anilino                               | 800    | UCIKO  |         |
| 30-003 | 30-30-40 | 0      | 0 | 11.1    | Annue                                 | 360    | UG/KG  | U       |
| 36-005 | 36-3047  | 0      | 6 | IN      | Aniline                               | 390    | UG/KG  | U       |
| 36-005 | 36-3046  | 0      | 6 | IN      | Aniline                               | 360    | UG/KG  | U       |
| 36-005 | 36-3045  | 0      | 6 | IN      | Aniline                               | 380    | UG/KG  | 11      |
| 36-005 | 36-3044  | 0      | 6 | IN      | Apilipo                               | 280    | NCKC   |         |
| 30-003 | 30-3044  | 0      | 0 | IIN     | Annine                                | 380    | UG/KG  | U       |
| 36-005 | 36-3043  | 0      | 6 | IN      | Aniline                               | 360    | UG/KG  | υ       |
| 36-005 | 36-3042  | 0      | 6 | IN      | Aniline                               | 350    | UG/KG  | U       |
| 36-005 | 36-3042  | 0      | 6 | IN      | Aniline                               | 340    | LIG/KG | 11      |
| 26 005 | 26 2041  | õ      | č | 161     | Anilina                               | 070    | Uanca  |         |
| 30-003 | 30-3041  | 0      | 0 | HN      | Annine                                | 350    | UG/KG  | U       |
| 36-005 | 36-3040  | 0      | 6 | IN      | Aniline                               | 350    | UG/KG  | U       |
| 36-005 | 36-3039  | 0      | 6 | IN      | Aniline                               | 340    | UG/KG  | U       |
| 36-005 | 36-3038  | 0      | 6 | IN      | Aniline                               | 360    | LIG/KG | Ū.      |
| 26 005 | 00 0007  | õ      | č | 11.4    | A - 10                                | 000    | Uaira  |         |
| 30-005 | 30-3037  | U      | D | IN      | Aniline                               | 350 .  | UG/KG  | U       |
| 36-005 | 36-3036  | 0      | 6 | IN      | Aniline                               | 340    | UG/KG  | U       |
| 36-005 | 36-3035  | 0      | 6 | IN      | Aniline                               | 350    | UG/KG  | U       |
| 36-005 | 36-3034  | 0      | 6 | IN      | Aniline                               | 350    |        |         |
| 20 000 | 20 0004  | ~      | ~ |         | A = 20                                | 550    |        |         |
| 30-005 | 30-3034  | U      | 0 | IN      | Aniiine                               | 350    | UG/KG  | U       |
| 36-005 | 36-3026  | 0      | 6 | IN      | Aniline                               | 140000 | UG/KG  | U       |
| 36-005 | 36-3025  | 0      | 6 | IN      | Aniline                               | 360    | UG/KG  | 11      |
| 36-005 | 36-3024  | Ó      | Ē | IN      | Aniline                               | 400    |        |         |
| 00-005 | 00-0024  | 0      | 0 | IIN IIN | Annine                                | 400    | UG/KG  | U       |
| 36-005 | 36-3023  | 0      | 6 | IN      | Aniline                               | 370    | UG/KG  | U       |
| 36-005 | 36-3022  | 0      | 6 | IN      | Aniline                               | 360    | UG/KG  | U       |
| 36-005 | 36-3021  | n      | 6 | IN      | Aniline                               | 400    |        |         |
| 26 005 | 26 2020  | ~      | č | 16.1    | Apiline                               |        |        |         |
| 30-005 | 30-3020  | U      | o | IN      | Aniine                                | 370    | UG/KG  | U       |
| 36-005 | 36-3019  | 0      | 6 | IN      | Aniline                               | 370    | UG/KG  | U       |
| 36-005 | 36-3018  | 0      | 6 | IN      | Aniline                               | 350    | UG/KG  | U       |
| 36-005 | 36-3018  | n      | 6 | IN      | Aniline                               | 370    |        | ň       |
|        |          | ~      |   |         | · · · · · · · · · · · · · · · · · · · |        |        |         |

Sec.

 $\forall \hat{\boldsymbol{u}}_{l_{2M}} \dots$ 

| 26.005 | 00 0054 | ^      | 6   | IN     | Anthracono | 350    | UG/KG  | U    |
|--------|---------|--------|-----|--------|------------|--------|--------|------|
| 30-005 | 30-3051 | 0      | 6   | 111    | Anthracene | 360    | UG/KG  | U    |
| 36-005 | 36-3050 | 0      | 6   | IN     | Anthracene | 360    | UC/KG  | ŭ    |
| 36-005 | 36-3050 | 0      | 6   | IN     | Anthracene | 350    |        |      |
| 36-005 | 36-3049 | 0      | 6   | IN     | Anthracene | 340    | UG/KG  | 0    |
| 36-005 | 36-3048 | 0      | 6   | IN     | Anthracene | 360    | UG/KG  | U    |
| 36-005 | 36-3047 | 0      | 6   | IN     | Anthracene | 390    | UG/KG  | U    |
| 36-005 | 36-3046 | 0      | 6   | IN     | Anthracene | 360    | UG/KG  | U    |
| 36-005 | 36-3045 | õ      | õ   | IN     | Anthracene | 380    | UG/KG  | U    |
| 36-005 | 36 3043 | 0      | 6   | IN IN  | Anthracene | 380    | LIG/KG | ü    |
| 30-005 | 30-3044 | 0      | 0   | HN INI | Anthracene | 300    | UC/KG  | ŭ    |
| 36-005 | 36-3043 | 0      | 6   | IN     | Anthracene | 360    | UG/KG  |      |
| 36-005 | 36-3042 | 0      | 6   | IN     | Anthracene | 350    | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6   | IN     | Anthracene | 340    | UG/KG  | U    |
| 36-005 | 36-3041 | 0      | 6   | IN     | Anthracene | 350    | UG/KG  | UJ   |
| 36-005 | 36-3040 | 0      | 6   | IN     | Anthracene | 350    | UG/KG  | UJ   |
| 36-005 | 36-3039 | 0      | 6   | IN     | Anthracene | 340    | UG/KG  | UJ   |
| 36-005 | 36-3038 | Ō      | 6   | IN     | Anthracene | 360    | UG/KG  | UJ   |
| 26 005 | 26.2027 | õ      | ě   | IN     | Anthracene | 350    | UG/KG  | 11.1 |
| 30-005 | 30-3037 | 0      | 6   | IN     | Anthracono | 340    | UG/KG  |      |
| 36-005 | 30-3030 | 0      | 0   |        | Antinacene | 340    |        | 00   |
| 36-005 | 36-3035 | 0      | 6   | IN     | Anthracene | 350    | UG/KG  | 00   |
| 36-005 | 36-3034 | 0      | 6   | IN     | Anthracene | 350 •  | UG/KG  | UJ   |
| 36-005 | 36-3034 | 0      | 6   | IN     | Anthracene | 350    | UG/KG  | UJ   |
| 36-005 | 36-3026 | 0      | 6   | IN     | Anthracene | 140000 | UG/KG  | U    |
| 36-005 | 36-3025 | 0      | 6   | IN     | Anthracene | 360    | UG/KG  | U    |
| 36-005 | 36-3024 | 0<br>0 | 6   | IN     | Anthracene | 400    | UG/KG  | U    |
| 30-005 | 36 3024 | õ      | 6   | IN     | Anthracene | 370    | UG/KG  | ũ    |
| 36-005 | 30-3023 | 0      | 0   | 114    | Anthracene | 260    | UG/KG  |      |
| 36-005 | 36-3022 | 0      | 6   | 111    | Anthracene | 300    |        | 0    |
| 36-005 | 36-3021 | 0      | 6   | IN     | Anthracene | 400    | UG/KG  | U    |
| 36-005 | 36-3020 | 0      | 6   | IN     | Anthracene | 370    | UG/KG  | U    |
| 36-005 | 36-3019 | 0      | 6   | 1N     | Anthracene | 370    | UG/KG  | υ    |
| 36-005 | 36-3018 | 0      | 6   | IN     | Anthracene | 350    | UG/KG  | U    |
| 36-005 | 36-3018 | n<br>n | 6   | IN     | Anthracene | 370    | UG/KG  | υ    |
| 36.005 | NA      | Ū      | U   |        | Antimony   | 9.4    | MG/KG  |      |
| 30-005 | 00.0051 | 0      | 6   | INI    | Antimony   | 7 31   | MG/KG  | ш    |
| 36-005 | 30-3051 | 0      | 0   | 11N    | Antimony   | 7.01   | MC/KG  | ŭ    |
| 36-005 | 36-3050 | 0      | 6   | IN     | Antimony   | 7.40   | MG/KG  | 0    |
| 36-005 | 36-3050 | 0      | 6   | IN     | Antimony   | 7.06   | MG/KG  | U    |
| 36-005 | 36-3049 | 0      | 6   | IN     | Antimony   | 7.36   | MG/KG  | 0    |
| 36-005 | 36-3048 | 0      | 6   | IN     | Antimony   | 7.7    | MG/KG  | υ    |
| 36-005 | 36-3047 | 0      | 6   | IN     | Antimony   | 7.78   | MG/KG  | υ    |
| 36-005 | 36-3046 | 0      | 6   | IN     | Antimony   | 7.11   | MG/KG  | υ    |
| 26.005 | 36-3045 | 0      | 6   | IN     | Antimony   | 7 75   | MG/KG  | U    |
| 30-005 | 30-3043 | 0      | e o | iNI    | Antimony   | 7.61   | MG/KG  | ũ    |
| 36-005 | 36-3044 | 0      | 0   | IN     | Antimony   | 7.01   | MG/KG  |      |
| 36-005 | 36-3043 | 0      | 6   | IN     | Antimony   | 1.22   | MG/KG  | 0    |
| 36-005 | 36-3042 | 0      | 6   | IN     | Antimony   | 6.9    | MG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6   | IN     | Antimony   | 6.77   | MG/KG  | U    |
| 36-005 | 36-3041 | 0      | 6   | IN     | Antimony   | 5.2    | MG/KG  | U    |
| 36-005 | 36-3040 | 0      | 6   | IN     | Antimony   | 5.2    | MG/KG  | U    |
| 36-005 | 36-3039 | 0      | 6   | IN     | Antimony   | 5      | MG/KG  | U    |
| 26.005 | 36-3038 | 0      | ĥ   | IN     | Antimony   | 54     | MG/KG  | u    |
| 00-005 | 26 2027 | ő      | é   | IN     | Antimony   | 52     | MG/KG  | ū    |
| 36-005 | 30-3037 | 0      | 0   |        | Antimoriy  | 5.2    | MORE   | ŭ    |
| 36-005 | 36-3036 | 0      | 6   | IN     | Anumony    | 5.2    | MG/KG  |      |
| 36-005 | 36-3035 | 0      | 6   | IN     | Antimony   | 5.3    | MG/KG  | 0    |
| 36-005 | 36-3034 | 0      | 6   | 1N     | Antimony   | 5.2    | MG/KG  | U    |
| 36-005 | 36-3034 | 0      | 6   | IN     | Antimony   | 5.3    | MG/KG  | U    |
| 36-005 | 36-3026 | 0      | 6   | IN     | Antimony   | 7.01   | MG/KG  | U    |
| 36-005 | 36-3025 | 0      | 6   | IN     | Antimony   | 7.24   | MG/KG  | U    |
| 36-005 | 36-3024 | 0      | 6   | IN     | Antimony   | 7.59   | MG/KG  | U    |
| 36.005 | 26.2022 | Ő      | 6   | IN     | Antimony   | 7.88   | MG/KG  | ũ    |
| 30-005 | 06 0000 | 0      | 6   | IN     | Antimony   | 9.00   | MG/KG  | ŭ    |
| 36-005 | 36-3022 | 0      | D   | IN     | Anumony    | 0.21   | MG/KG  |      |
| 36-005 | 36-3021 | 0      | 6   | IN     | Antimony   | 8.1    | MG/KG  | U    |
| 36-005 | 36-3020 | 0      | 6   | IN     | Antimony   | 7.65   | MG/KG  | U    |
| 36-005 | 36-3019 | 0      | 6   | IN     | Antimony   | 7.49   | MG/KG  | U    |
| 36-005 | 36-3018 | 0      | 6   | IN     | Antimony   | 7.56   | MG/KG  | U    |
| 36-005 | 36-3018 | 0      | 6   | IN     | Antimony   | 7.86   | MG/KG  | U    |
| 36-005 | NA      | -      | -   |        | Arsenic    | 423    | MG/KG  | -    |
| 00-000 | 00 0054 | ~      | c   | IN I   | Arconic    | 0.72   | MG/KG  |      |
| 30-005 | 30-3051 | U      | Ö   | HN III | Arsenic    | 0.72   |        |      |
| 36-005 | 36-3050 | 0      | 6   | IN     | Arsenic    | 1.3    | MG/KG  | U    |
| 36-005 | 36-3050 | 0      | 6   | IN     | Arsenic    | 1.9    | MG/KG  | U    |
| 36-005 | 36-3049 | 0      | 6   | IN     | Arsenic    | 0.72   | MG/KG  | U    |
| 36-005 | 36-3048 | 0 -    | 6   | IN     | Arsenic    | 1.3    | MG/KG  | U    |
| 36-005 | 36-3047 | 0      | 6   | IN     | Arsenic    | 0.81   | MG/KG  | U    |
| 36-005 | 36.3046 | ň      | ě   | IN     | Arsenic    | 0.72   | MG/KG  | ũ    |
| 36.005 | 00-0040 | 0      | é   | IN I   | Areanic    | 1 7    | MG/KG  |      |
| 30-005 | 30-3045 | 0      | 0   | HN (P) | Araonic    | 1.7    | Marka  |      |
| 36-005 | 36-3044 | 0      | 6   | IN     | Arsenic    | 0.92   | MG/KG  | U    |
| 36-005 | 36-3043 | 0      | 6   | IN     | Arsenic    | 0.73   | MG/KG  | U    |

|                   | 36-005 | 36-3042 | 0 | 6      | IN          | Arsenic    | 0.68        | MG/KG  | υ  |
|-------------------|--------|---------|---|--------|-------------|------------|-------------|--------|----|
| . <sup>471</sup>  | 36-005 | 36-3042 | 0 | 6      | IN          | Arsenic    | 0.73        | MG/KG  | υ  |
|                   | 36-005 | 36-3041 | 0 | 6      | IN          | Arsenic    | 0.92        | MG/KG  | Ű  |
| Sec. 1            | 36-005 | 36-3040 | 0 | 6      | IN          | Arsenic    | 0.64        | MG/KG  | Ū  |
|                   | 36-005 | 36-3039 | ō | ě      | IN          | Arsenic    | 0.85        | MG/KG  |    |
|                   | 36-005 | 36-3038 | õ | ã      | iN          | Arsonic    | 0.89        | MG/KG  |    |
|                   | 36-005 | 36-3037 | õ | 6      | INI         | Arsonic    | 1.2         | MG/KG  | U  |
|                   | 36-005 | 36-3036 | 0 | 6      | IN          | Arsonio    | 0.74        | MG/KG  |    |
|                   | 30-005 | 30-3030 | 0 | 6      | IN IN       | Arsenic    | 0.74        | MG/KG  | U  |
|                   | 36-005 | 30-3035 | 0 | D C    | IN          | Arsenic    | 1.4         | MG/KG  |    |
|                   | 30-005 | 36-3034 | 0 | 6      | IN          | Arsenic    | 1.1         | MG/KG  |    |
|                   | 36-005 | 36-3034 | 0 | 6      | IN          | Arsenic    | 1.1         | MG/KG  |    |
|                   | 36-005 | 36-3026 | 0 | 6      | IN          | Arsenic    | 0.89        | MG/KG  | U  |
|                   | 36-005 | 36-3025 | 0 | 6      | IN          | Arsenic    | 0.8         | MG/KG  | U  |
|                   | 36-005 | 36-3024 | 0 | 6      | IN          | Arsenic    | 0.77        | MG/KG  | υ  |
|                   | 36-005 | 36-3023 | 0 | 6      | IN          | Arsenic    | 1.4         | MG/KG  | υ  |
|                   | 36-005 | 36-3022 | 0 | 6      | IN          | Arsenic    | 1.2         | MG/KG  | U  |
|                   | 36-005 | 36-3021 | 0 | 6      | IN          | Arsenic    | 1.4         | MG/KG  | υ  |
|                   | 36-005 | 36-3020 | 0 | 6      | IN          | Arsenic    | 1.3         | MG/KG  | υ  |
|                   | 36-005 | 36-3019 | 0 | 6      | IN          | Arsenic    | 1.3         | MG/KG  | υ  |
|                   | 36-005 | 36-3018 | 0 | 6      | IN          | Arsenic    | 1,2         | MG/KG  | U  |
|                   | 36-005 | 36-3018 | 0 | 6      | IN          | Arsenic    | 1.1         | MG/KG  | ū  |
|                   | 36-005 | 36-3051 | 0 | 6      | IN          | Azobenzene | 350         | UG/KG  | ů. |
|                   | 36-005 | 36-3050 | 0 | 6      | IN          | Azobenzene | 360         | UG/KG  |    |
|                   | 36-005 | 36-3050 | õ | 6      | IN          | Azobenzene | 350         | UG/KG  |    |
|                   | 36-005 | 36-3049 | õ | 6      | IN          | Azobenzene | 350         |        | 0  |
|                   | 36-005 | 26 2049 | 0 | 6      | IN<br>IN    | Azobenzene | 340         | UG/KG  |    |
|                   | 36-005 | 30-3040 | 0 | 0      | IN          | Azobenzene | 360         | UG/KG  | U  |
|                   | 36-005 | 36-3047 | 0 | 6      | IN          | Azobenzene | 390         | UG/KG  | U  |
|                   | 36-005 | 36-3046 | 0 | 6      | IN          | Azobenzene | 360         | UG/KG  | U  |
|                   | 36-005 | 36-3045 | 0 | 6      | IN          | Azobenzene | 380         | UG/KG  | U  |
|                   | 36-005 | 36-3044 | 0 | 6      | IN          | Azobenzene | 380         | UG/KG  | U  |
|                   | 36-005 | 36-3043 | 0 | 6      | IN          | Azobenzene | 360         | UG/KG  | U  |
|                   | 36-005 | 36-3042 | 0 | 6      | IN          | Azobenzene | 350         | UG/KG  | U  |
|                   | 36-005 | 36-3042 | 0 | 6      | IN          | Azobenzene | 340         | UG/KG  | U  |
|                   | 36-005 | 36-3041 | 0 | 6      | IN          | Azobenzene | 350         | UG/KG  | Ū  |
|                   | 36-005 | 36-3040 | 0 | 6      | IN          | Azobenzene | 350         | UG/KG  | ŭ  |
|                   | 36-005 | 36-3039 | 0 | 6      | IN          | Azobenzene | 340         | LIG/KG | ŭ  |
|                   | 36-005 | 36-3038 | ñ | e<br>e | IN          | Azobenzene | 360         | UG/KG  |    |
| -                 | 36-005 | 36-3037 | õ | 6      | 1N          | Azobenzene | 360         |        |    |
| No.               | 36-005 | 36-3036 | 0 | 6      | IN          | Azobenzene | 350         |        |    |
|                   | 30-005 | 30-3030 | 0 | 0      | 11N         | Azobenzene | 340         | UG/KG  | U  |
|                   | 36-005 | 30-3035 | 0 | 0      | IN IN       | Azobenzene | 350         | UG/KG  | U  |
|                   | 30-005 | 30-3034 | 0 | ь      | IN          | Azobenzene | 350         | UG/KG  | U  |
|                   | 36-005 | 36-3034 | 0 | 6      | IN          | Azobenzene | 350         | UG/KG  | U  |
|                   | 36-005 | 36-3026 | 0 | 6      | ÍN          | Azobenzene | 140000      | UG/KG  | U  |
|                   | 36-005 | 36-3025 | 0 | 6      | IN          | Azobenzene | 360         | UG/KG  | U  |
|                   | 36-005 | 36-3024 | 0 | 6      | IN          | Azobenzene | 400         | UG/KG  | U  |
|                   | 36-005 | 36-3023 | 0 | 6      | IN          | Azobenzene | 370         | UG/KG  | U  |
|                   | 36-005 | 36-3022 | 0 | 6      | IN          | Azobenzene | 360         | UG/KG  | υ  |
|                   | 36-005 | 36-3021 | 0 | 6      | IN          | Azobenzene | 400         | UG/KG  | υ  |
|                   | 36-005 | 36-3020 | 0 | 6      | IN          | Azobenzene | 370         | UG/KG  | Ū  |
|                   | 36-005 | 36-3019 | 0 | 6      | IN          | Azobenzene | 370         | UG/KG  | ū  |
|                   | 36-005 | 36-3018 | 0 | 6      | IN          | Azobenzene | 350         | LIG/KG | ŭ  |
|                   | 36-005 | 36-3018 | Ō | 6      | IN          | Azobenzene | 370         | UG/KG  |    |
|                   | 36-005 | NA      | 2 | -      |             | Barium     | 070<br>06 E | MG/KG  | 0  |
|                   | 36-005 | 36-3051 | 0 | 6      | IN          | Barium     | · 20.5      | MG/KG  |    |
|                   | 36-005 | 36-3050 | ő | 6      | IN          | Barium     | 44.0        |        |    |
|                   | 36.005 | 36,3050 | 0 | 6      | ri N<br>IKI | Dariuii    | 14/         | MG/KG  |    |
|                   | 36-005 | 30-3050 | 0 | 0      | HN IN       | Barium     | 150         | MG/KG  |    |
|                   | 36-005 | 36-3049 | U | 6      | IN          | Barium     | 35.6        | MG/KG  | U  |
|                   | 36-005 | 36-3048 | 0 | 6      | IN          | Barium     | 196         | MG/KG  |    |
|                   | 36-005 | 36-3047 | 0 | 6      | IN          | Barium     | 109         | MG/KG  |    |
|                   | 36-005 | 36-3046 | 0 | 6      | IN          | Barium     | 63.4        | MG/KG  |    |
|                   | 36-005 | 36-3045 | 0 | 6      | IN          | Barium     | 244         | MG/KG  |    |
|                   | 36-005 | 36-3044 | 0 | 6      | IN          | Barium     | 123         | MG/KG  |    |
|                   | 36-005 | 36-3043 | 0 | 6      | IN          | Barium     | 63.7        | MG/KG  |    |
|                   | 36-005 | 36-3042 | 0 | 6      | IN          | Barium     | 120 /       | MG/KG  |    |
|                   | 36-005 | 36-3042 | 0 | 6      | IN          | Barium     | 110         | MG/KG  |    |
|                   | 36-005 | 36-3041 | ñ | 6      | IN          | Barium     | E 4         | MG/KC  |    |
|                   | 36-005 | 36-3040 | ñ | 6      | INI         | Borium     | 04          |        |    |
|                   | 36.005 | 36.3030 | 0 | 0      | 11.1        | Danum      | 98          | MG/KG  |    |
|                   | 30-005 | 30-3039 | 0 | 0      | IN IN       | Barium     | 70.4        | MG/KG  |    |
|                   | 30-005 | 36-3038 | U | 6      | IN          | Barium     | 116         | MG/KG  |    |
|                   | 36-005 | 36-3037 | 0 | 6      | IN          | Barium     | 123         | MG/KG  |    |
|                   | 36-005 | 36-3036 | 0 | 6      | IN          | Barium     | 128         | MG/KG  |    |
| 1. <sup>2</sup>   | 36-005 | 36-3035 | 0 | 6      | IN          | Barium     | 192         | MG/KG  |    |
|                   | 36-005 | 36-3034 | 0 | 6      | IN          | Barium     | 132         | MG/KG  |    |
| 'ê <sub>111</sub> | 36-005 | 36-3034 | 0 | 6      | IN          | Barium     | 140         | MG/KG  |    |
|                   |        |         |   |        |             |            |             |        |    |

| 36-005 | 36-3026 | 0      | 6      | IN         | Barium              | 107    | MG/KG   |       |
|--------|---------|--------|--------|------------|---------------------|--------|---------|-------|
| 26-005 | 36-3025 | ů<br>0 | 6      | IN         | Barium              | 75.9   | MG/KG   | J     |
| 30-005 | 36-3024 | õ      | 6      | iN         | Barium              | 106    | MG/KG   | J     |
| 36-005 | 36-3024 | 0      | 6      | IN         | Barium              | 113    | MG/KG   | J     |
| 36-005 | 36-3023 | 0      | 6      | IN         | Barium              | 82.4   | MG/KG   | J     |
| 36-005 | 30-3022 | 0      | 6      | IIN INI    | Barium              | 107    | MG/KG   | J     |
| 36-005 | 36-3021 | 0      | e<br>e | IN         | Barium              | 91.1   | MG/KG   | J     |
| 36-005 | 36-3020 | 0      | b      | IN         | Barium              | 97.5   | MG/KG   | .1    |
| 36-005 | 36-3019 | 0      | 6      | IN         | Barium              | 97.5   | MG/KG   | .1    |
| 36-005 | 36-3018 | 0      | 6      | IN         | Barium              | 60.8   | MG/KG   | 1     |
| 36-005 | 36-3018 | 0      | 6      | IN         | Barium              | 69.8   |         | 5     |
| 36-005 | 36-3051 | 0      | 6      | IN         | Benzene             | 5      | UG/KG   | 0     |
| 36-005 | 36-3050 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3050 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3049 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3048 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3047 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3046 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3045 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 26-005 | 36-3044 | Ő      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3044 | 0      | 6      | IN         | Benzene             | 5      | UG/KG   | U     |
| 36-005 | 30-3043 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3042 | 0      | ç      | IN         | Benzene             | 5      | UG/KG   | U     |
| 36-005 | 36-3042 | 0      | 0      | IN IN      | Benzene             | 5      | UG/KG   | ū     |
| 36-005 | 36-3041 | 0      | 0      | IIN        | Denzene             | 5      | UG/KG   | Ű     |
| 36-005 | 36-3040 | 0      | 6      | IN         | Benzene             | 5      |         | Ű     |
| 36-005 | 36-3039 | 0      | 6      | IN         | Benzene             | 5      |         |       |
| 36-005 | 36-3038 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | 0     |
| 36-005 | 36-3037 | 0      | 6      | IN         | Benzene             | 5      | UG/KG   | U     |
| 36-005 | 36-3036 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3035 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3034 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3034 | 0      | 6      | IN         | Benzene             | 5      | UG/KG   | U     |
| 36-005 | 36-3026 | 0      | 6      | IN         | Benzene             | 25     | UG/KG   | U     |
| 36-005 | 36-3025 | 0<br>0 | 6      | IN         | Benzene             | 5      | UG/KG   | U     |
| 36.005 | 36-3024 | õ      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 30-005 | 36 3033 | 0      | ê      | IN         | Benzene             | 6      | UG/KG   | υ     |
| 36-005 | 30-3023 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | Ū     |
| 36-005 | 36-3022 | 0      | 0      |            | Benzono             | ő      | UG/KG   | u -   |
| 36-005 | 36-3021 | 0      | 6      | IN         | Denzene             | 6      | UG/KG   | U U   |
| 36-005 | 36-3020 | 0      | 6      | IN         | Benzene             | 8      |         | 0     |
| 36-005 | 36-3019 | 0      | 6      | IN         | Benzene             | 6      |         | 0     |
| 36-005 | 36-3018 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | 0     |
| 36-005 | 36-3018 | 0      | 6      | IN         | Benzene             | 6      | UG/KG   | U     |
| 36-005 | 36-3051 | 0      | 6      | IN         | Benzo(a)anthracene  | 350    | UG/KG   | U     |
| 36-005 | 36-3050 | 0      | 6      | IN         | Benzo(a)anthracene  | 360    | UG/KG   | U     |
| 36-005 | 36-3050 | 0      | 6      | IN         | Benzo(a)anthracene  | 350    | UG/KG   | U     |
| 36-005 | 36-3049 | 0      | 6      | IN         | Benzo(a)anthracene  | 340    | UG/KG   | U     |
| 36-005 | 36-3048 | 0      | 6      | IN         | Benzo(a)anthracene  | 360    | UG/KG   | U     |
| 36-005 | 36-3047 | 0      | 6      | IN         | Benzo(a)anthracene  | 390    | UG/KG   | U     |
| 36-005 | 36-3046 | Ō      | 6      | IN         | Benzo(a)anthracene  | 360    | UG/KG   | U     |
| 36-005 | 36-3045 | 0      | 6      | IN         | Benzo(a)anthracene  | 380    | UG/KG   | υ     |
| 36-005 | 36-3044 | Ő      | 6      | IN         | Benzo(a)anthracene  | 380    | UG/KG   | U     |
| 30-005 | 26 2042 | ő      | ê      | IN         | Benzo(a)anthracene  | 360    | UG/KG   | U     |
| 30-005 | 30-3043 | ő      | 6      | IN IN      | Benzo(a)anthracene  | 350    | UG/KG   | U     |
| 36-005 | 30-3042 | 0      | 6      | IN         | Bonzo(a)anthracene  | 340    | UG/KG   | ū     |
| 36-005 | 36-3042 | 0      | 0      |            | Benzo(a)anthracene  | 350    | UG/KG   | ŭ     |
| 36-005 | 36-3041 | 0      | 0      |            | Denzo(a)anthracene  | 350    | UG/KG   | ů.    |
| 36-005 | 36-3040 | 0      | 6      | IN         | Benzo(a)antimacene  | 330    |         | U U   |
| 36-005 | 36-3039 | 0      | 6      | IN         | Benzo(a)anthracene  | 340    |         | 0     |
| 36-005 | 36-3038 | 0      | 6      | IN         | Benzo(a)anthracene  | 360    | UG/KG   | 0     |
| 36-005 | 36-3037 | 0      | 6      | IN         | Benzo(a)anthracene  | 350    | UG/KG   | U     |
| 36-005 | 36-3036 | 0      | 6      | IN         | Benzo(a)anthracene  | 340    | UG/KG   | U     |
| 36-005 | 36-3035 | 0      | 6      | IN         | Benzo(a)anthracene  | 350    | UG/KG   | U     |
| 36-005 | 36-3034 | 0      | 6      | IN         | Benzo(a)anthracene  | 350    | UG/KG   | U     |
| 36-005 | 36-3034 | 0      | 6      | IN         | Benzo(a)anthracene  | 350    | UG/KG   | U     |
| 36-005 | 36-3026 | 0      | 6      | IN         | Benzo(a)anthracene  | 140000 | UG/KG   | U     |
| 36-005 | 36-3025 | 0      | 6      | IN         | Benzo(a)anthracene  | 360    | UG/KG   | U     |
| 36-005 | 36-3024 | ň      | Â      | IN         | Benzo(a)anthracene  | 400    | UG/KG   | U     |
| 30-000 | 36-3024 | 0      | a      | IN         | Benzo(a)anthracene  | 370    | UG/KG   | U     |
| 30-005 | 30-3023 | 0      | 6      | INI        | Benzo(a)anthracene  | 360    | UG/KG   | ú     |
| 30-005 | 30-3022 | 0      | ۰<br>د | IIN<br>INI | Banzo(a)anthracono  | 400    | UG/KG   | ũ     |
| 36-005 | 36-3021 | U      | o<br>A |            |                     | 970    | UG/KG   | 11    |
| 36-005 | 36-3020 | U      | 6      | IN         |                     | 370    |         |       |
| 36-005 | 36-3019 | 0      | 6      | IN         | Benzo(a)antinracene | 370    |         |       |
| 36-005 | 36-3018 | 0      | 6      | IN         | Benzo(a)anthracene  | 350    |         | 0     |
| 36-005 | 36-3018 | 0      | 6      | IN         | Benzo(a)anthracene  | 370    | UG/KG   | U<br> |
| 36-005 | 36-3051 | 0      | 6      | IN         | Benzo(a)pyrene      | 350    | UG/KG . | U     |
| 36-005 | 36-3050 | 0      | 6      | IN         | Benzo(a)pyrene      | 360    | UG/KG   | U     |

| 36-005 | 36-3050 | 0      | 6      | IN    | Benzo(a)pyrene        | 350    | UG/KG  | υ    |
|--------|---------|--------|--------|-------|-----------------------|--------|--------|------|
| 36-005 | 36-3049 | 0      | 6      | IN    | Benzo(a)nyrene        | 340    | UG/KG  | . ii |
| 36-005 | 36-2049 | õ      | é      | 15    | Bopzo(a)pyrene        | 040    | UC/KC  |      |
| 30-005 | 30-3048 | 0      | 0      | IN    | Benzo(a)pyrene        | 360    | UG/KG  | U    |
| 36-005 | 36-3047 | U      | 6      | IN    | Benzo(a)pyrene        | 390    | UG/KG  | U    |
| 36-005 | 36-3046 | 0      | 6      | IN    | Benzo(a)pyrene        | 360    | UG/KG  | U    |
| 36-005 | 36-3045 | 0      | 6      | IN    | Benzo(a)pyrene        | 380    | UG/KG  | U    |
| 36-005 | 36-3044 | 0      | 6      | IN    | Benzo(a)pyrene        | 380    | LIG/KG | Ū.   |
| 36,005 | 36-2042 | Ő      | e<br>e | INI   | Benze(a)pyrene        | 200    | UQ/KQ  |      |
| 30-005 | 30-3043 | 0      | 0      | IN    | Benzo(a)pyrene        | 360    | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6      | IN    | Benzo(a)pyrene        | 350    | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6      | IN    | Benzo(a)pyrene        | 340    | UG/KG  | U    |
| 36-005 | 36-3041 | 0      | 6      | IN    | Benzo(a)pyrene        | 350    | UG/KG  | 11.1 |
| 36-005 | 36-3040 | n.     | 6      | IN    | Benzo(a)pyrano        | 350    | UCIKO  |      |
| 26 005 | 26 2020 | õ      | °      | 11.5  | Denzo(a)pyrene        | 350    | UG/KG  | 00   |
| 36-005 | 30-3039 | 0      | 0      | IIN   | Benzo(a)pyrene        | 340    | UG/KG  | UJ   |
| 36-005 | 36-3038 | 0      | 6      | IN    | Benzo(a)pyrene        | 360    | UG/KG  | UJ   |
| 36-005 | 36-3037 | 0      | 6      | IN    | Benzo(a)pyrene        | 350    | UG/KG  | UJ   |
| 36-005 | 36-3036 | 0      | 6      | IN    | Benzo(a)pyrene        | 340    | UG/KG  | 0.1  |
| 36-005 | 36-3035 | 0      | 6      | IN    | Benzo(a)nyrene        | 350    | LIG/KG |      |
| 36-005 | 36.3034 | Ő      | 6      | INI   | Bonzo(a)pyrono        | 250    | UQ/KQ  |      |
| 30-003 | 30-3034 | 0      | 6      | IIN   | benzo(a)pyrene        | 350    | UG/KG  | UJ   |
| 36-005 | 36-3034 | 0      | 6      | IN    | Benzo(a)pyrene        | 350    | UG/KG  | UJ   |
| 36-005 | 36-3026 | 0      | 6      | IN    | Benzo(a)pyrene        | 140000 | UG/KG  | U    |
| 36-005 | 36-3025 | 0      | 6      | IN    | Benzo(a)pyrene        | 360    | UG/KG  | U    |
| 36-005 | 36-3024 | 0      | 6      | IN    | Benzo(a)ovrene        | 400    | HG/KG  |      |
| 36 005 | 26 2022 | ő      | ē      | IN    | Benze(a)pyrene        | 400    | UQ/KG  |      |
| 30-005 | 30-3023 | 0      | 0      |       | Benzo(a)pyrene        | 370    | UG/KG  | U    |
| 36-005 | 36-3022 | 0      | 6      | IN    | Benzo(a)pyrene        | 360    | UG/KG  | U    |
| 36-005 | 36-3021 | 0      | 6      | IN    | Benzo(a)pyrene        | 400    | UG/KG  | U    |
| 36-005 | 36-3020 | 0      | 6      | IN    | Benzo(a)pyrene        | 370    | UG/KG  | U    |
| 36-005 | 36-3019 | 0      | 6      | IN    | Benzo(a)pyrene        | 370    | LIG/KG |      |
| 36-005 | 36-3018 | õ      | ě      | IN    | Banzo(a)pyrono        | 350    |        |      |
| 00-005 | 00-0010 | 0      | 0      | IN IN | Benzo(a)pyrene        | 350    | UG/KG  | U    |
| 36-005 | 30-3018 | 0      | 6      | IN    | Benzo(a)pyrene        | 370    | UG/KG  | U    |
| 36-005 | 36-3051 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 350    | UG/KG  | U    |
| 36-005 | 36-3050 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 360    | UG/KG  | U    |
| 36-005 | 36-3050 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 350    | LIG/KG |      |
| 36-005 | 36-3049 | Ô      | Ē      | IN    | Benzo(b)fluorantheno  | 340    | UCIKO  |      |
| 36.005 | 26 2049 | 0      | é      | IN    | Benzo(b)//uoranthene  | 340    | UG/KG  | 0    |
| 30-005 | 30-3048 | 0      | ь      | IN    | Benzo(D)fluorantnene  | 360    | UG/KG  | U    |
| 36-005 | 36-3047 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 390    | UG/KG  | U    |
| 36-005 | 36-3046 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 360    | UG/KG  | U    |
| 36-005 | 36-3045 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 380    | UG/KG  | Ú.   |
| 36-005 | 36-3044 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 390    |        | ň    |
| 36-005 | 36-3043 | õ      | é      | IN    | Bonzo(b)fluoranthono  | 380    |        |      |
| 00-005 | 00-0040 | 0      | 0      |       | Denzo(D)indoranmene   | 360    | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 350    | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 340    | UG/KG  | U    |
| 36-005 | 36-3041 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 350    | UG/KG  | U    |
| 36-005 | 36-3040 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 350    | LIG/KG |      |
| 36-005 | 36-3039 | Ō      | ĥ      | IN    | Benzo(b)fluoranthono  | 340    | UC/KC  |      |
| 36.005 | 26 2020 | õ      | 6      | IN I  |                       | 340    | UG/KG  | 0    |
| 30-005 | 30-3030 | 0      | 0      | IN    | Benzo(b)fluoranthene  | 360    | UG/KG  | U    |
| 36-005 | 36-3037 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 350    | UG/KG  | υ    |
| 36-005 | 36-3036 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 340    | UG/KG  | U    |
| 36-005 | 36-3035 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 350    | LIG/KG | ŭ    |
| 36-005 | 36-3034 | Ó      | 6      | IN    | Benzo(b)fluoranthono  | 250    |        |      |
| 00.000 | 00-0004 | 0      | č      | 111   | Denzo(b)/huorant/rene | 350    | UG/KG  | U    |
| 36-005 | 36-3034 | 0      | ь      | IN    | Benzo(D)fluoranthene  | 350    | UG/KG  | U    |
| 36-005 | 36-3026 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 140000 | UG/KG  | U    |
| 36-005 | 36-3025 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 360    | UG/KG  | U    |
| 36-005 | 36-3024 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 400    | LIG/KG |      |
| 36-005 | 36-3023 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 200    |        |      |
| 26 005 | 36 3023 | õ      | é      | 11.1  | Denzo(b)fluorantinene | 370    | UG/KG  | 0    |
| 30-005 | 30-3022 | 0      | 0      | IN    | Benzo(b)nuorantnene   | 360    | UG/KG  | U    |
| 36-005 | 36-3021 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 400    | UG/KG  | U    |
| 36-005 | 36-3020 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 370    | UG/KG  | υ    |
| 36-005 | 36-3019 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 370    | UG/KG  | Ū.   |
| 36-005 | 36-3018 | 0      | 6      | IN    | Benzo(b)fluoranthene  | 250    | UG/KG  | ŭ    |
| 26 005 | 26 2010 | õ      | ě      | 111   | Denze(b)fluerenthere  | 350    | UG/KG  | 0    |
| 30-003 | 30-3018 | 0      | 0      | IIN   | Benzo(b)fluorantnene  | 370    | UG/KG  | U    |
| 36-005 | 36-3051 | 0      | 6      | IN    | Benzo(g,h,i)perylene  | 350    | UG/KG  | U    |
| 36-005 | 36-3050 | 0      | 6      | IN    | Benzo(g,h,i)perylene  | 360    | UG/KG  | U    |
| 36-005 | 36-3050 | 0      | 6      | IN    | Benzo(a,h,i)perviene  | 350    | LIG/KG |      |
| 36-005 | 36-3049 | 0      | 6      | IN    | Benzo(a b i)perviene  | 240    | UG/KG  |      |
| 36-005 | 26-2040 | õ      | ç      | 1.1   |                       | 340    |        | U    |
| 30-005 | 30-3048 | U<br>A | Ö      | 1111  | benzo(g,n,i)perviene  | 360    | UG/KG  | U    |
| 36-005 | 36-3047 | 0      | 6      | IN    | Benzo(g,h,i)perylene  | 390    | UG/KG  | U    |
| 36-005 | 36-3046 | 0      | 6      | IN    | Benzo(g,h,i)pervlene  | 360    | UG/KG  | U    |
| 36-005 | 36-3045 | 0      | 6      | IN    | Benzo(a.h.i)pervlene  | 380    | LIG/KG | ň    |
| 36-005 | 36-3044 | n      | 6      | IN    | Benzo(a b i)pervience | 200    | LIGIKO |      |
| 36 005 | 26 2042 | Ä      | 6      | 1.    |                       | 360    |        | U    |
| 30-005 | 30-3043 | 0      | 0      | IN    | Benzo(g,n,i)perviene  | 360    | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6      | IN    | Benzo(g,h,i)perylene  | 350    | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6      | IN    | Benzo(g,h,i)perylene  | 340    | UG/KG  | U    |
| 36-005 | 36-3041 | 0      | 6      | IN    | Benzo(g.h.i)nervlene  | 350    | UG/KG  | ŭ    |
| 36-005 | 36-3040 | Ó      | ĥ      | IN    | Benzo(a h i)penylono  | 950    |        |      |
| 00 000 | 00 0040 | 5      | 0      |       | Denzo(g,n,i)peryiene  | 300    | UG/KG  | 0    |

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| 00.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                       | 6                                                                                           | IN                                      | Benzo(g,h,i)perylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                   | UG/KG                                                                                                                                                                                                                                  | U                                                      |
| 26-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                       | 6                                                                                           | IN                                      | Benzo(g h i)pervlene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                   | UG/KG                                                                                                                                                                                                                                  | U                                                      |
| 30-003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                       | č                                                                                           |                                         | Bonzo(g.h.i)ponylono                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                                                                                                                                                                                   | UG/KG                                                                                                                                                                                                                                  |                                                        |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                       | D .                                                                                         | IN                                      | berizo(g,n,i)perviene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                       | 6                                                                                           | IN                                      | Benzo(g,h,i)perylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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400<br>370<br>360<br>400<br>370<br>370<br>370<br>350<br>370<br>1800<br>1700<br>1700<br>1800<br>2000<br>1800<br>1900<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1700<br>1800<br>1700<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1800<br>1700<br>1800<br>1900<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1900<br>1800<br>1700<br>1800<br>1700<br>1800<br>1900<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1900<br>1800<br>1700<br>1800<br>1900<br>1800<br>1700<br>1800<br>1900<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1700<br>1800<br>1700<br>1700<br>1800<br>1700<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1700<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1800<br>1800<br>1900<br>1800<br>1800<br>1800<br>1900<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1900<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1800<br>1900<br>1800<br>1900<br>1800<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>1900<br>190 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG |                                                        |

|        | 36-005           | 36-3021            | 0      | 6      | IN         | Benzoic Acid                                             | 2000       | UG/KG          | U      |
|--------|------------------|--------------------|--------|--------|------------|----------------------------------------------------------|------------|----------------|--------|
|        | 36-005           | 36-3020            | 0      | 6      | IN         | Benzoic Acid                                             | 1900       | UG/KG          | υ      |
| 1<br>4 | 36-005           | 36-3019            | 0      | 6      | IN         | Benzoic Acid                                             | 1900       | UG/KG          | U      |
|        | 36-005           | 36-3018            | 0      | 6      | IN         | Benzoic Acid                                             | 1700       | UG/KG          | Ŭ      |
|        | 36-005           | 36-3018            | 0      | 6      | IN         | Benzoic Acid                                             | 1800       | UG/KG          | Ū      |
|        | 36-005           | 36-3051            | 0      | 6      | IN         | Benzyl Alcohol                                           | 710        | UG/KG          | ŭ      |
|        | 36-005           | 36-3050            | Ő      | 6      | IN         | Benzyl Alcohol                                           | 710        | UG/KG          | U U    |
|        | 36-005           | 36-3050            | Ő      | 6      | INI        | Benzyl Alcohol                                           | 710        | UG/KG          |        |
|        | 36-005           | 36-3040            | 0      | 6      | IN         | Benzyl Alcohol                                           | 700        |                |        |
|        | 36-005           | 26 2049            | 0      | 6      | HN IN      | Depred Alashal                                           | 680        | UG/KG          |        |
|        | 30-005           | 30-3040            | 0      | 0      | IN         | Benzyl Alcohol                                           | 730        | UG/KG          | 0      |
|        | 36-005           | 36-3047            | 0      | 6      | IN         | Benzyl Alcohol                                           | 780        | UG/KG          | U      |
|        | 36-005           | 36-3046            | 0      | 6      | IN         | Benzyl Alcohol                                           | 720        | UG/KG          | U      |
|        | 36-005           | 36-3045            | 0      | 6      | IN         | Benzyl Alcohol                                           | 760        | UG/KG          | U      |
|        | 36-005           | 36-3044            | 0      | 6      | IN         | Benzyl Alcohol                                           | 760        | UG/KG          | U      |
|        | 36-005           | 36-3043            | 0      | 6      | IN         | Benzyl Alcohol                                           | 730        | UG/KG          | U      |
|        | 36-005           | 36-3042            | 0      | 6      | IN         | Benzyl Alcohol                                           | 700        | UG/KG          | U      |
|        | 36-005           | 36-3042            | 0      | 6      | IN         | Benzyl Alcohol                                           | 690        | UG/KG          | U      |
|        | 36-005           | 36-3041            | 0      | 6      | IN         | Benzyi Alcohol                                           | 690        | UG/KG          | U      |
|        | 36-005           | 36-3040            | 0      | 6      | IN         | Benzyl Alcohol                                           | 690        | UG/KG          | U      |
|        | 36-005           | 36-3039            | 0      | 6      | IN         | Benzyl Alcohol                                           | 670        | UG/KG          | U      |
|        | 36-005           | 36-3038            | 0      | 6      | 1N         | Benzyl Alcohol                                           | 710        | UG/KG          | υ      |
|        | 36-005           | 36-3037            | 0      | 6      | IN         | Benzyl Alcohol                                           | 690        | UG/KG          | Ŭ      |
|        | 36-005           | 36-3036            | 0      | 6      | IN         | Benzyl Alcohol                                           | 680        | UG/KG          | Ū      |
|        | 36-005           | 36-3035            | 0      | 6      | IN         | Benzyl Alcohol                                           | 710        | UG/KG          | Ū      |
|        | 36-005           | 36-3034            | 0      | 6      | IN         | Benzyl Alcohol                                           | 700        | UG/KG          | ŭ      |
|        | 36-005           | 36-3034            | Ō      | 6      | IN         | Benzyl Alcohol                                           | 710        | UG/KG          | ŭ      |
|        | 36-005           | 36-3026            | õ      | 6      | IN         | Benzyl Alcohol                                           | 270000     | UG/KG          |        |
|        | 36-005           | 36-3025            | õ      | ő      | IN         | Benzyl Alcohol                                           | 730        | UG/KG          |        |
|        | 36-005           | 36-3024            | ő      | 6      | IN         | Benzyl Alcohol                                           | 730        |                |        |
|        | 36-005           | 36-3023            | 0      | 6      | IN         | Benzul Alcohol                                           | 800        | UG/KG          |        |
|        | 36.005           | 36-3023            | 0      | 6      | IN         | Benzyl Alcohol                                           | 740        | UG/KG          |        |
|        | 30-005           | 30-3022            | 0      | 0      | in in      | Benzyi Alcohoi                                           | 710        | UG/KG          | U      |
|        | 36-005           | 36-3021            | 0      | 6      | IN         | Benzyl Alconol                                           | 810        | UG/KG          | U      |
|        | 36-005           | 36-3020            | 0      | 6      | IN         | Benzyl Alcohol                                           | 740        | UG/KG          | U      |
|        | 36-005           | 36-3019            | 0      | 6      | IN         | Benzyl Alcohol                                           | 740        | UG/KG          | U      |
|        | 36-005           | 36-3018            | 0      | 6      | IN         | Benzyl Alcohol                                           | 690        | UG/KG          | υ      |
|        | 36-005           | 36-3018            | 0      | 6      | IN         | Benzyl Alcohol                                           | 730        | UG/KG          | U      |
|        | 36-005           | NA                 |        |        |            | Beryllium                                                | 0.52       | MG/KG          | υ      |
|        | 36-005           | 36-3051            | 0      | 6      | IN         | Beryllium                                                | 0.45       | MG/KG          | U      |
|        | 36-005           | 36-3050            | 0      | 6      | IN         | Beryllium                                                | 0.91       | MG/KG          | υ      |
|        | 36-005           | 36-3050            | 0      | 6      | IN         | Beryllium                                                | 0.86       | MG/KG          | U      |
|        | 36-005           | 36-3049            | 0      | 6      | IN         | Beryllium                                                | 0.38       | MG/KG          | U      |
|        | 36-005           | 36-3048            | 0      | 6      | IN         | Beryllium                                                | 1.4        | MG/KG          | J      |
|        | 36-005           | 36-3047            | 0      | 6      | IN         | Beryllium                                                | 0.55       | MG/KG          | U      |
|        | 36-005           | 36-3046            | 0      | 6      | IN         | Beryllium                                                | 0.44       | MG/KG          | υ      |
|        | 36-005           | 36-3045            | 0      | 6      | IN         | Beryllium                                                | 1.3        | MG/KG          | J      |
|        | 36-005           | 36-3044            | 0      | 6      | IN         | Beryllium                                                | 0.54       | MG/KG          | Ū      |
|        | 36-005           | 36-3043            | 0      | 6      | IN         | Bervilium                                                | 0.45       | MG/KG          | Ŭ      |
|        | 36-005           | 36-3042            | 0      | 6      | IN         | Bervllium                                                | 0.49       | MG/KG          | 11     |
|        | 36-005           | 36-3042            | 0      | 6      | IN         | Bervllium                                                | 0.56       | MG/KG          |        |
|        | 36-005           | 36-3041            | 0      | 6      | IN         | Beryllium                                                | 0.55       | MG/KG          | 0      |
|        | 36-005           | 36-3040            | Ô      | 6      | IN         | Bendlium                                                 | 0.05       | MG/KG          |        |
|        | 36-005           | 36-3030            | õ      | 6      | IN IN      | Bendlium                                                 | 0.55       | MG/KG          |        |
|        | 36-005           | 26 2029            | 0      | 6      | UN IN      | Beryllum                                                 | 0.5        | MG/KG          | U      |
|        | 36-005           | 36-3035            | 0      | 6      | IIN INI    | Deryllum                                                 | 0.71       | MG/KG          |        |
|        | 30-005           | 30-3037            | 0      | o<br>c | HN IA I    |                                                          | 0.59       | MG/KG          |        |
|        | 30-005           | 30-3030            | 0      | 0      | IN         | Beryllium                                                | 0.7        | MG/KG          |        |
|        | 36-005           | 36-3035            | 0      | 6      | IN         | Beryllium                                                | 1.2        | MG/KG          |        |
|        | 36-005           | 36-3034            | 0      | 6      | IN         | Beryllium                                                | 0.69       | MG/KG          |        |
|        | 36-005           | 36-3034            | 0      | 6      | IN         | Beryllium                                                | 0.75       | MG/KG          |        |
|        | 36-005           | 36-3026            | 0      | 6      | IN         | Beryllium                                                | 0.5        | MG/KG          | U      |
|        | 36-005           | 36-3025            | 0      | 6      | IN         | Beryllium                                                | 0.55       | MG/KG          | υ      |
|        | 36-005           | 36-3024            | 0      | 6      | IN         | Beryllium                                                | 0.75       | MG/KG          | U      |
|        | 36-005           | 36-3023            | 0      | 6      | IN         | Beryllium                                                | 0.69       | MG/KG          | U      |
|        | 36-005           | 36-3022            | 0      | 6      | IN         | Beryllium                                                | 0.63       | MG/KG          | Ū      |
|        | 36-005           | 36-3021            | 0      | 6      | IN         | Beryllium                                                | 0.62       | MG/KG          | ũ      |
|        | 36-005           | 36-3020            | 0      | 6      | IN         | Bervilium                                                | 0.58       | MG/KG          |        |
|        | 36-005           | 36-3019            | Ó      | 6      | IN         | Beryllium                                                | 0.50       | MG/KG          |        |
|        | 36-005           | 36-3018            | õ      | 6      | IN         | Bendlium                                                 | 0.07       |                |        |
|        | 36-005           | 36-2019            | õ      | 6      | INI        | Bondlium                                                 | 0.99       |                |        |
|        | 36.005           | 26.2054            | 0      | ć      | EIN<br>HAI |                                                          | 0.6        | MG/KG          | U      |
|        | 30-005           | 30-3051            | 0      | o<br>c | HN .       | Dis(2-chioroethoxy)methane                               | 350        | UG/KG          | U      |
|        | 30-005           | 36-3050            | U      | 6      | IN         | Bis(2-chloroethoxy)methane                               | 360        | UG/KG          | υ      |
|        | 36-005           | 36-3050            | 0      | 6      | IN         | Bis(2-chloroethoxy)methane                               | 350        | UG/KG          | U      |
|        |                  |                    | -      | -      |            |                                                          |            |                |        |
|        | 36-005           | 36-3049            | 0      | 6      | IN         | Bis(2-chloroethoxy)methane                               | 340        | UG/KG          | U      |
|        | 36-005<br>36-005 | 36-3049<br>36-3048 | 0<br>0 | 6<br>6 | IN<br>IN   | Bis(2-chloroethoxy)methane<br>Bis(2-chloroethoxy)methane | 340<br>360 | UG/KG<br>UG/KG | U<br>U |

| 36-005 | 36-3046 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 360    | UG/KG  | 0   |
|--------|---------|----------|--------|--------------|-----------------------------|--------|--------|-----|
| 36-005 | 36-3045 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 380    | UG/KG  | U   |
| 36-005 | 36-3044 | Õ        | 6      | IN           | Bis(2-chloroethoxy)methane  | 380    | UG/KG  | U   |
| 36-005 | 36-3043 | õ        | ě      | IN           | Bis(2-chloroethow)methane   | 360    | UG/KG  | U   |
| 30-005 | 30-3043 | 0        | 6      | IIN          | Bis(2 chloroethous) methano | 350    | UG/KG  | Ú.  |
| 36-005 | 30-3042 | 0        | 0      | IN           | Bis(2-chloroethoxy)methane  | 330    | UG/KG  | ŭ   |
| 36-005 | 36-3042 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 340    |        |     |
| 36-005 | 36-3041 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 350    | UG/KG  | U   |
| 36-005 | 36-3040 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 350    | UG/KG  | υ   |
| 36-005 | 36-3039 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 340    | UG/KG  | U   |
| 36-005 | 36-3038 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 360    | UG/KG  | U   |
| 36-005 | 36-3037 | Ő        | 6      | INI          | Bis(2-chloroethoxy)methane  | 350    | UG/KG  | U   |
| 36 005 | 26 2026 | õ        | e<br>e | EN I         | Bis(2-chloroethoxy)methane  | 340    |        | Ū.  |
| 30-005 | 30-3030 | 0        | 0      | 11 1         |                             | 340    | UCIKC  |     |
| 36-005 | 36-3035 | 0        | D<br>O | NN .         | Bis(2-chloroethoxy)methane  | 350    |        |     |
| 36-005 | 36-3034 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 350    | UG/KG  | 0   |
| 36-005 | 36-3034 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 350    | UG/KG  | U   |
| 36-005 | 36-3026 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 140000 | UG/KG  | U   |
| 36-005 | 36-3025 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 360    | UG/KG  | U   |
| 36-005 | 36-3024 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 400    | UG/KG  | U   |
| 36-005 | 36-3023 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 370    | UG/KG  | U   |
| 36-005 | 26 2022 | õ        | 6      | IN           | Bis(2-chloroethoxy)methane  | 360    | UG/KG  | Ū.  |
| 30-005 | 30-3022 | 0        | °      | IN           | Bis(2 chloroothow)mothano   | 400    | UG/KG  |     |
| 36-005 | 36-3021 | 0        | 0      | lin          | Bis(2-chloroethoxy)methane  | 400    | UG/KG  |     |
| 36-005 | 36-3020 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 370    | UG/KG  | U   |
| 36-005 | 36-3019 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 370    | UG/KG  | U   |
| 36-005 | 36-3018 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 350    | UG/KG  | υ   |
| 36-005 | 36-3018 | 0        | 6      | IN           | Bis(2-chloroethoxy)methane  | 370    | UG/KG  | U   |
| 26 005 | 26 2051 | Õ        | ĥ      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | U   |
| 30-005 | 30-3031 | 0        | 6      | IN           | Bis(2 chloroethyl)ether     | 360    | UG/KG  |     |
| 36-005 | 36-3050 | 0        | 0      | IN           | Bis(2-chioroethyl)ether     | 300    |        |     |
| 36-005 | 36-3050 | 0        | 6      | IN           | Bis(2-chioroethyl)ether     | 350    | UG/KG  |     |
| 36-005 | 36-3049 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 340    | UG/KG  | U   |
| 36-005 | 36-3048 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 360    | UG/KG  | U   |
| 36-005 | 36-3047 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 390    | UG/KG  | U   |
| 36-005 | 36-3046 | Ō        | 6      | IN           | Bis(2-chloroethyl)ether     | 360    | UG/KG  | U   |
| 30-003 | 36 3045 | õ        | 6      | IN           | Bis(2-chloroethyl)ether     | 380    | UG/KG  | ū   |
| 36-005 | 30-3045 | 0        | 0      | 111          | Bis(2 chloroethyl)ether     | 280    |        | ŭ   |
| 36-005 | 36-3044 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 380    |        |     |
| 36-005 | 36-3043 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 360    | UG/KG  | 0   |
| 36-005 | 36-3042 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | U   |
| 36-005 | 36-3042 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 340    | UG/KG  | U   |
| 36-005 | 36-3041 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | UJ  |
| 36-005 | 36-3040 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | UJ  |
| 26 005 | 36-3030 | õ        | ê      | IN           | Bis(2-chloroethyl)ether     | 340    | UG/KG  | U.J |
| 30-005 | 30-3039 | 0        | e o    | IN           | Bis(2 chloroethyl)ether     | 360    |        | 111 |
| 36-005 | 30-3038 | U        | 0      |              | Dis(2-chloroethyr)ether     | 300    | UG/KG  |     |
| 36-005 | 36-3037 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | 00  |
| 36-005 | 36-3036 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 340    | UG/KG  | UJ  |
| 36-005 | 36-3035 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | UJ  |
| 36-005 | 36-3034 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | UJ  |
| 36-005 | 36-3034 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  | UJ  |
| 36.005 | 26.2026 | õ        | 6      | IN           | Bis(2-chloroethyl)ether     | 140000 | UG/KG  | 11  |
| 30-005 | 30-3020 | 0        | 0      | 111          | Dis(2-chloroethyl)ether     | 360    |        | ŭ   |
| 36-005 | 36-3025 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 300    |        |     |
| 36-005 | 36-3024 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 400    | UG/KG  | U   |
| 36-005 | 36-3023 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 370    | UG/KG  | U   |
| 36-005 | 36-3022 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 360    | UG/KG  | υ   |
| 36-005 | 36-3021 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 400    | UG/KG  | U   |
| 36-005 | 36-3020 | Ô        | 6      | IN           | Bis(2-chloroethyl)ether     | 370    | UG/KG  | U   |
| 30-005 | 26 2010 | õ        | é      | IN           | Bis/2-chloroethyl)ether     | 370    | LIG/KG | - ū |
| 36-005 | 30-3019 | 0        | 0      | 111          | Dis(2-chioroethyr)ether     | 370    |        | ŭ   |
| 36-005 | 36-3018 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 350    | UG/KG  |     |
| 36-005 | 36-3018 | 0        | 6      | IN           | Bis(2-chloroethyl)ether     | 370    | UG/KG  | U   |
| 36-005 | 36-3051 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 350    | UG/KG  | U   |
| 36-005 | 36-3050 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 360    | UG/KG  | U   |
| 36-005 | 36-3050 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 350    | UG/KG  | U   |
| 26-005 | 36-3040 | õ        | ě      | IN           | Bis(2-ethylhexyl)phthalate  | 340    | UG/KG  | Ū   |
| 30-005 | 30-3049 | ŏ        | e<br>e | INI          | Bis(2 othylhoxyl)phthalato  | 360    | UG/KG  | ŭ   |
| 36-005 | 36-3048 | 0        | 0      | IIN          | Dis(2-ethylhexyl)phinalate  | 300    |        |     |
| 36-005 | 36-3047 | 0        | 6      | IN           | Bis(2-etnyinexyi)phthalate  | 390    | UG/KG  | 0   |
| 36-005 | 36-3046 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 360    | UG/KG  | 0   |
| 36-005 | 36-3045 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 380    | UG/KG  | υ   |
| 36-005 | 36-3044 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 380    | UG/KG  | υ   |
| 36-005 | 36-3043 | Ō        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 360    | UG/KG  | u   |
| 26,005 | 26 2040 | ň        | 6      | INJ          | Bis(2-ethylbesyl)phthalato  | 350    | UG/KG  | ŭ   |
| 00-000 | 00-0042 | ~        | 0      | 11.4         |                             | 0.00   |        |     |
| 30-005 | 36-3042 | U        | 6      | IN           | ois(2-euriyinexyi)primalate | 340    |        | U   |
| 36-005 | 36-3041 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 350    | UG/KG  | U   |
| 36-005 | 36-3040 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 350    | UG/KG  | U   |
| 36-005 | 36-3039 | 0        | 6      | IN           | Bis(2-ethylhexyl)phthalate  | 340    | UG/KG  | U   |
| 36-005 | 36-3038 | ñ        | 6      | IN           | Bis(2-ethvlhexyl)phthalate  | 360    | UG/KG  | υ   |
| 36.005 | 36-2027 | õ        | ē      | IN           | Bis(2-ethylhexyl)phthalate  | 350    | UG/KG  | H   |
| 30-005 | 30-3037 | <u>,</u> | 0      | il N<br>jk i |                             | 940    |        |     |
| 30-005 | 30-3036 | U        | b      | 1111         | Distz-ethymexyl)Dhuiaiate   | 340    | Jana   | 0   |

| 36-005 | 36-3035 | 0   | 6      | IN    | Bis(2-ethylhexyl)phthalate    | 350    | UG/KG  | U   |
|--------|---------|-----|--------|-------|-------------------------------|--------|--------|-----|
| 36-005 | 36-3034 | 0   | 6      | IN    | Bis(2-ethylhexyl)phthalate    | 350    | UG/KG  | U   |
| 36-005 | 36-3034 | 0   | 6      | IN    | Bis(2-ethylberyl)phthalate    | 350    | UG/KG  | U   |
| 36-005 | 36-3026 | 0   | e<br>e | iNI   | Bis(2-ethylhoxyl)phthalate    | 140000 | LIG/KG |     |
| 26 005 | 36 3020 | õ   | 0      | 11 1  | Dis(2 -ethylinexy))philialate | 140000 |        |     |
| 30-005 | 30-3025 | 0   | 0      | 111   | Dis(2-ethylnexyl)phthalate    | 360    |        |     |
| 36-005 | 36-3024 | 0   | 6      | iN    | Bis(2-ethylhexyl)phthalate    | 400    | UG/KG  | U   |
| 36-005 | 36-3023 | 0   | 6      | IN    | Bis(2-ethylhexyl)phthalate    | 370    | UG/KG  | U   |
| 36-005 | 36-3022 | 0   | 6      | IN    | Bis(2-ethylhexyl)phthalate    | 360    | UG/KG  | U   |
| 36-005 | 36-3021 | 0   | 6      | IN    | Bis(2-ethylhexyl)phthalate    | 400    | UG/KG  | U   |
| 36-005 | 36-3020 | 0   | 6      | IN    | Bis(2-ethylberyl)phthalate    | 370    | UG/KG  |     |
| 26.005 | 26-2010 | õ   | e<br>e | IN    | Bis(2 othylhoxyl)phthalate    | 370    | UG/KG  |     |
| 36-005 | 30-3019 | 0   | 0      | IN    | Dis(2-ethylnexyl)phinalate    | 370    | UG/KG  | 0   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Bis(2-ethylhexyl)phthalate    | 350    | UG/KG  | U   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Bis(2-ethylhexyl)phthalate    | 370    | UG/KG  | U   |
| 36-005 | 36-3051 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  | U   |
| 36-005 | 36-3050 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | U   |
| 36-005 | 36-3050 | Ō   | 6      | IN    | Bromohenzene                  | 6      | UG/KG  | ŭ   |
| 36-005 | 36-3040 | õ   | ŝ      | IN    | Bromobenzene                  | 6      | LIG/KG |     |
| 30-005 | 30-3049 | 0   | 0      | 11.1  | Dromobenzene                  | 0      |        |     |
| 36-005 | 36-3048 | U   | 0      | IN    | Bromobenzene                  | Б      | UG/KG  | UJ  |
| 36-005 | 36-3047 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | U   |
| 36-005 | 36-3046 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | U   |
| 36-005 | 36-3045 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | UJ  |
| 36-005 | 36-3044 | 0   | 6      | IN    | Bromohenzene                  | 6      | UG/KG  | 114 |
| 36-005 | 36-3043 | õ   | e<br>e | IN    | Bromobenzone                  | 5      |        |     |
| 30-005 | 30-3043 | 0   | 0      | 115   | Bromobenzene                  | 5      |        |     |
| 30-005 | 30-3042 | 0   | 0      |       | Bromobenzene                  | 6      | UG/KG  | 00  |
| 36-005 | 36-3042 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  | UJ  |
| 36-005 | 36-3041 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  | U   |
| 36-005 | 36-3040 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  | U   |
| 36-005 | 36-3039 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  | U   |
| 36-005 | 36-3038 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | Ū.  |
| 36-005 | 36-3037 | 0   | ē      | IN    | Bromobenzene                  | 5      |        | ŭ   |
| 26.005 | 36-2026 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  |     |
| 30-005 | 30-3030 | 0   | 0      | 111   | Diomobelizene                 | 0      | UG/KG  |     |
| 36-005 | 36-3035 | U   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | U   |
| 36-005 | 36-3034 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | U   |
| 36-005 | 36-3034 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  | U   |
| 36-005 | 36-3026 | 0   | 6      | IN    | Bromobenzene                  | 25     | UG/KG  | U   |
| 36-005 | 36-3025 | 0   | 6      | IN    | Bromobenzene                  | 5      | UG/KG  |     |
| 36-005 | 36-3024 | 0   | 6      | IN    | Bromobenzene                  | ě      | UG/KG  | ŭ   |
| 26-005 | 26-2022 | õ   | é      | iN    | Bromobonzono                  | 6      |        |     |
| 30-005 | 30-3023 | 0   | 6      | IIN   | bromobenzene                  | 6      | UG/KG  | 00  |
| 36-005 | 36-3022 | 0   | b      | IN    | Bromobenzene                  | 6      | UG/KG  | Ų   |
| 36-005 | 36-3021 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | UJ  |
| 36-005 | 36-3020 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | UJ  |
| 36-005 | 36-3019 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | U   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Bromobenzene                  | 6      | UG/KG  | Ü   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Bromobenzene                  | ĥ      |        | ŭ   |
| 36-005 | 36-3051 | õ   | é      | IN    | Bromoshloromothano            | 5      |        |     |
| 00-005 | 00-0001 | 0   | 0      | IN IN | Diomocniorometrane            | 5      |        | 0   |
| 36-005 | 36-3050 | U   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3050 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3049 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3048 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3047 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  |     |
| 36-005 | 36-3046 | õ   | 6      | IN    | Bromochloromothana            | 6      |        |     |
| 30-005 | 30-3040 | 0   | 0      | 11.5  | Dismochioroniethane           | 0      | UG/KG  | 0   |
| 30-005 | 30-3045 | 0   | 0      | IIN I | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3044 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3043 | 0   | 6      | IN    | Bromochloromethane            | 5      | UG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | υ   |
| 36-005 | 36-3042 | 0   | 6      | IN    | Bromochloromethane            | 5      | LIG/KG | ū   |
| 36-005 | 36-3041 | Ô   | 6      | IN    | Bromochloromethane            | 5      | UG/KG  | ŭ   |
| 26 005 | 26 2040 | õ   | 6      | INI   | Bromochloromethane            | 5      |        |     |
| 30-005 | 30-3040 | 0   | 0      |       | Bromochioromethane            | 5      | UG/KG  | U   |
| 36-005 | 36-3039 | U   | ъ      | IN    | Bromochloromethane            | 5      | UG/KG  | U   |
| 36-005 | 36-3038 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3037 | 0   | 6      | IN    | Bromochloromethane            | 5      | UG/KG  | U   |
| 36-005 | 36-3036 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3035 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  |     |
| 26 005 | 26 2024 | õ   | e      | IN    | Bromochloromethana            | 0      |        |     |
| 00-000 | 00-0004 | 0   | ~      |       | Bromochloromethane            | 0      |        | U   |
| 30-005 | 30-3034 | U   | 6      | IN    | Bromocniorometnane            | 5      | UG/KG  | U   |
| 36-005 | 36-3026 | 0   | 6      | IN    | Bromochloromethane            | 25     | UG/KG  | U   |
| 36-005 | 36-3025 | 0   | 6      | IN    | Bromochloromethane            | 5      | UG/KG  | U   |
| 36-005 | 36-3024 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3023 | · n | 6      | IN    | Bromochloromethane            | -<br>E | LIG/KG | ŭ   |
| 36-005 | 36-3023 | ñ   | e      | INI   | Bromochloromethane            | 0      |        |     |
| 30-005 | 30-3022 | 0   | U<br>C | 11N   | Bromochloromethane            | 0      | UG/KG  | U   |
| 36-005 | 36-3021 | υ   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3020 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | U   |
| 36-005 | 36-3019 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | υ   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Bromochloromethane            | 6      | UG/KG  | Ū   |
|        |         |     |        |       |                               | -      |        | -   |

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|        |          | •        | - |           | Description of the second seco | 6  | UC/KG  | 11     |
|--------|----------|----------|---|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------|--------|
| 36-005 | 36-3018  | 0        | 6 | IN        | Bromochloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6  | UG/KG  | U      |
| 36-005 | 36-3051  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | U      |
| 00 005 | 00 0050  | 0        | č | 45.1      | Bromodichleromethano                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ĥ  | LIG/KG | 11     |
| 30-005 | 36-3050  | U        | Ð | IN        | biomodicitioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0  | 00/100 |        |
| 36-005 | 36-3050  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 36-005 | 36-3049  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | υ      |
| 26 005 | 26 2040  | 0        | ē | 151       | Bromodichloromothane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | 11     |
| 30-005 | 30-3040  | 0        | 0 | IIN       | Diomodicilioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ő  |        | ŭ      |
| 36-005 | 36-3047  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/NG  | U      |
| 36-005 | 36-3046  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 00 005 | 26 2045  | 0        | 6 | 151       | Bromodiobloromothane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | 11     |
| 36-005 | 30-3045  | U        | 0 | (IN       | Diomodicilioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0  |        | ŭ      |
| 36-005 | 36-3044  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 36-005 | 36-3043  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | U      |
| 00 000 | 00 0040  | õ        | ě | INI       | Bromodichloromothana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | LIG/KG |        |
| 36-005 | 36-3042  | 0        | 6 | IN        | Bromodichioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | UG/KG  | 0      |
| 36-005 | 36-3042  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | U      |
| 36-005 | 36-3041  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | U      |
| 00 000 | 00 00 10 | õ        | č | INI       | Bremedichleremethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | F  |        | 11     |
| 36-005 | 36-3040  | U        | ю | IIN       | Bromodichioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | 0      |
| 36-005 | 36-3039  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | U      |
| 36-005 | 36-3038  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | υ      |
| 00 000 | 00 00007 | <u> </u> | č | INI       | Bromodichloromothano                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | F  | HG/KG  | 11     |
| 36-005 | 36-3037  | U        | ь | IN        | Bromodichiorometriarie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5  | UG/KG  | 0      |
| 36-005 | 36-3036  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 36-005 | 36-3035  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 30-003 | 00-0000  | 0        |   | 114       | Desma dishlaramathana                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6  | UC/KC  | ū      |
| 36-005 | 36-3034  | U        | ъ | lin       | Bromodicnioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | UG/KG  | U      |
| 36-005 | 36-3034  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | υ      |
| 36.005 | 36-3026  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25 | UG/KG  | U      |
| 30-005 | 30-3020  | 0        | 0 |           | Bromodichieremethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | NCKC   | ŭ      |
| 36-005 | 36-3025  | 0        | 6 | IN        | Bromodicnioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5  | UG/KG  | 0      |
| 36-005 | 36-3024  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 00 005 | 06 0000  | 0        | ē | INI       | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | 11     |
| 36-005 | 36-3023  | U        | 0 | IIN       | Diomodichioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | Udind  |        |
| 36-005 | 36-3022  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 36-005 | 36-3021  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 00-000 | 00 0021  | Š        | Š | 1.1       | Dremedichleremethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UC/KG  | . ŭ    |
| 36-005 | 36-3020  | U        | ь | IN        | Bromodicnioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | 00/KG  | 0      |
| 36-005 | 36-3019  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 36-005 | 36-3018  | 0        | 6 | IN        | Bromodichloromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  | UG/KG  | U      |
| 00-005 | 00-0010  | ő        | 0 |           | Dremedichlesseethans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6  |        |        |
| 36-005 | 36-3018  | 0        | 6 | IN        | Bromodicnioromethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0  | UG/KG  | U      |
| 36-005 | 36-3051  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | U      |
| 36-005 | 36.3050  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 30-005 | 30-3030  | 0        | 0 | 11.1      | Bromolenn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | č  |        | ŭ      |
| 36-005 | 36-3050  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Б  | UG/KG  | U      |
| 36-005 | 36-3049  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 26 005 | 26 2049  | 0        | 6 | INI       | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | LIG/KG | Ш      |
| 30-005 | 30-3040  | 0        | 0 |           | Bromolofin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ů  | UQ/KQ  | ŭ      |
| 36-005 | 36-3047  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 36-005 | 36-3046  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | Ų      |
| 00 000 | 26 2045  | õ        | ē | INI       | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | LIG/KG | . ii   |
| 30-005 | 30-3045  | U        | 0 | IIN       | Biomolom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0  | 00/100 |        |
| 36-005 | 36-3044  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 36-005 | 36-3043  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | υ      |
| 00 000 | 00 00 40 | õ        | č | 161       | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | HC/KC  | 111    |
| 36-005 | 36-3042  | 0        | ь | HN        | Bromolorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0  | UG/KG  | 00     |
| 36-005 | 36-3042  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | U      |
| 36-005 | 36-3041  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | υ      |
| 00-000 | 00.0041  |          | ő |           | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  |        | ŭ      |
| 36-005 | 36-3040  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | U      |
| 36-005 | 36-3039  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | U      |
| 36-005 | 36-3038  | ٥        | 6 | <b>IN</b> | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U II   |
| 00-000 | 00-0000  | 0        | ě |           | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  |        | ŭ      |
| 36-005 | 36-3037  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | U      |
| 36-005 | 36-3036  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 26 005 | 26 2025  | ٥        | 6 | INI       | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | LIG/KG | 11     |
| 30-005 | 30-3035  | 0        | 0 |           | Bronnoionn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |        | ŭ      |
| 36-005 | 36-3034  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 36-005 | 36-3034  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | U      |
| 26.005 | 26.2026  | Ō        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25 | UG/KG  |        |
| 30-005 | 30-3020  | U        | 0 | 114       | Biomolorin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25 | Udina  |        |
| 36-005 | 36-3025  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5  | UG/KG  | U      |
| 36-005 | 36-3024  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 26 005 | 26 2022  | Ō        | Ē | (N)       | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | f  | UC/KG  |        |
| 30-005 | 30-3023  | 0        | 0 |           | Diomoioini                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0  |        | ŭ      |
| 36-005 | 36-3022  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | 0      |
| 36-005 | 36-3021  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 20 005 | 26 2020  | 0        | ê | 1A1       | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | c  |        | - ū    |
| 36-005 | 30-3020  | U        | 0 | IIN       | Bromolonn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0  | UG/KG  |        |
| 36-005 | 36-3019  | 0        | 6 | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 36-005 | 36-3018  | 0        | 6 | IN        | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  | UG/KG  | U      |
| 26 005 | 26 2010  | ~        | Ê | INI       | Bromoform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6  |        | -<br>- |
| 30-005 | 30-3018  | U        | o | IN        | Bromotorm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | D  | UG/KG  | U      |
| 36-005 | 36-3051  | 0        | 6 | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 | UG/KG  | U      |
| 36-005 | 36-3050  | 0        | 6 | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 | UG/KG  | LI     |
| 00 000 | 00 0000  | ~        | č |           | Dramanath ===                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |        | ŭ      |
| 30-005 | 36-3050  | U        | 6 | IN        | Bromometnane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 | UG/KG  | U      |
| 36-005 | 36-3049  | 0        | 6 | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 | UG/KG  | U      |
| 36-005 | 36-2018  | Δ        | e | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 | LIG/KG | 11     |
| 00-000 | 00-0040  | ~        | ~ |           | Deters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 11 |        |        |
| 36-005 | 36-3047  | 0        | 6 | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12 | UG/KG  | · U    |
| 36-005 | 36-3046  | 0        | 6 | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 | UG/KG  | U      |
| 26 005 | 26 2045  | Ň        | Ē | INI       | Bromomethese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 44 |        | -      |
| 30-005 | 30-3045  | U        | D | IIN       | bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    | UG/KG  | U      |
| 36-005 | 36-3044  | 0        | 6 | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 | UG/KG  | U      |
| 36-005 | 36-3043  | 0        | 6 | IN        | Bromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 | UG/KG  | U      |
| 00 000 | 00 00 10 | Š        | ç |           | Bromomothess                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 | LIGHO  |        |
| 30-003 | 00-0042  | U        | o | IIN       | Dromomethane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 | 00/60  | U      |

|       | 36-005 | 36-3042 | 0 | 6      | INI     | Bromomethe                   |          |            |    |
|-------|--------|---------|---|--------|---------|------------------------------|----------|------------|----|
|       | 36-005 | 26.2041 | 0 | 0      | lin     | Bromomethane                 | 10       | UG/KG      | υ  |
|       | 36-005 | 30-3041 | 0 | 0      | IN      | Bromomethane                 | 10       | UG/KG      | U  |
|       | 36-005 | 36-3040 | 0 | 6      | IN      | Bromomethane                 | 10       | UG/KG      | U  |
|       | 36-005 | 36-3039 | 0 | 6      | IN      | Bromomethane                 | 10       | UG/KG      | υ  |
|       | 36-005 | 36-3038 | 0 | 6      | IN      | Bromomethane                 | 11       | UG/KG      | ū  |
|       | 36-005 | 36-3037 | 0 | 6      | IN      | Bromomethane                 | 10       | UG/KG      | ŭ  |
|       | 36-005 | 36-3036 | 0 | 6      | IN      | Bromomethane                 | 10       | UG/KG      |    |
|       | 36-005 | 36-3035 | Ő | Ĕ      | IN      | Bromomethane                 | 11       | UG/KG      | U  |
|       | 36,005 | 26 2024 | 0 | 0      | IIN IIN | Diomomethane                 | 11       | UG/KG      | U  |
|       | 30-005 | 30-3034 | 0 | D      | IN      | Bromomethane                 | 11       | UG/KG      | U  |
|       | 36-005 | 36-3034 | 0 | 6      | IN      | Bromomethane                 | 10       | UG/KG      | υ  |
|       | 36-005 | 36-3026 | 0 | 6      | IN      | Bromomethane                 | 50       | UG/KG      | Ē. |
|       | 36-005 | 36-3025 | 0 | 6      | IN      | Bromomethane                 | 10       | UGIKO      | ŭ  |
|       | 36-005 | 36-3024 | 0 | 6      | IN      | Bromomothano                 | 10       | UG/KG      | 0  |
|       | 36-005 | 36-3023 | ő | ě      | IN      | Distriction                  | 12       | UG/KG      | U  |
|       | 00-000 | 00-0020 | 0 | 0      | IIN     | Bromometnane                 | 11       | UG/KG      | U  |
|       | 30-005 | 36-3022 | 0 | 6      | IN      | Bromomethane                 | 12       | UG/KG      | U  |
|       | 36-005 | 36-3021 | 0 | 6      | IN      | Bromomethane                 | 12       | UG/KG      | υ  |
|       | 36-005 | 36-3020 | 0 | 6      | IN      | Bromomethane                 | 11       | UG/KG      | Ū. |
|       | 36-005 | 36-3019 | 0 | 6      | IN      | Bromomethane                 | 11       |            |    |
|       | 36-005 | 36-3018 | 0 | 6      | IN      | Bromomethane                 | 11       | UG/KG      | 0  |
|       | 36-005 | 36-3018 | õ | e<br>e | 151     | Bromemethane                 | 11       | UG/KG      | U  |
|       | 26.005 | 26 2051 | 0 | 0      | IIN IN  | Bromometnane                 | 11       | UG/KG      | U  |
|       | 30-005 | 30-3051 | 0 | ь      | IN      | Bromophenyl-phenylether[4-]  | 350      | UG/KG      | U  |
|       | 36-005 | 36-3050 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 360      | UG/KG      | U  |
|       | 36-005 | 36-3050 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 350      | UG/KG      | Ð  |
|       | 36-005 | 36-3049 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 340      | LIG/KG     | ŭ  |
|       | 36-005 | 36-3048 | 0 | 6      | IN      | Bromophenvi-phenvietheri/4-1 | 360      | Herke      |    |
|       | 36-005 | 36-3047 | 0 | 6      | IN      | Bromophenyl-phenylether[4.]  | 300      |            |    |
|       | 36-005 | 36-3046 | Ő | 6      | INI     | Bromophenyl-phenylether[4-]  | 390      | UG/KG      | U  |
|       | 26 005 | 00 0040 | 0 | 0      | n N     | Bromophenyi-prienyietner[4-] | 360      | UG/KG      | U  |
|       | 30-005 | 30-3045 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 380      | UG/KG      | U  |
|       | 36-005 | 36-3044 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 380      | UG/KG      | U  |
|       | 36-005 | 36-3043 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 360      | UG/KG      | Ū. |
|       | 36-005 | 36-3042 | 0 | 6      | IN      | Bromophenvi-phenviether[4-]  | 350      | UG/KG      | ŭ  |
|       | 36-005 | 36-3042 | 0 | 6      | IN      | Bromophenvi-phenvietheri4-1  | 240      | UC/KG      |    |
|       | 36-005 | 36-3041 | Ô | 6      | IN      | Bromophonyl phonylethor[4]   | 340      | UG/KG      | U  |
|       | 36-005 | 36-3040 | õ | 6      | INI     | Bromephenyl-phenylether(4-)  | 350      | UG/KG      | U  |
|       | 36-005 | 26 2020 | 0 | 0      |         | Bromophenyi-phenyiethen[4-]  | 350      | UG/KG      | U  |
|       | 30-005 | 30-3039 | 0 | 0      | IN      | Bromophenyl-phenylether[4-]  | 340      | UG/KG      | υ  |
|       | 36-005 | 36-3038 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 360      | UG/KG      | U  |
| 4     | 36-005 | 36-3037 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 350      | UG/KG      | Ū  |
|       | 36-005 | 36-3036 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 340      | UG/KG      | ŭ  |
|       | 36-005 | 36-3035 | 0 | 6      | IN      | Bromophenyl-phenylether/4-1  | 350      | UG/KG      | Ň  |
|       | 36-005 | 36-3034 | 0 | 6      | IN      | Bromonbenyl-phenylether[4-]  | 350      |            |    |
|       | 36-005 | 36-3034 | Ō | 6      | IN      | Bromophonyl phonylethor[4]   | 350      | UG/KG      | U  |
|       | 36-005 | 36-3026 | õ | 6      | iNi     | Bromophenyl-phenylether[4-]  | 350      | UG/KG      | U  |
|       | 36-005 | 26 2025 | 0 | 0      | 101     | Bromophenyi-phenyiether[4-]  | 140000   | UG/KG      | U  |
|       | 36.005 | 00-0020 | 0 | 0      | IN      | Bromopnenyi-pnenyiether[4-]  | 360      | UG/KG      | U  |
|       | 30-005 | 36-3024 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 400      | UG/KG      | U  |
|       | 36-005 | 36-3023 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 370      | UG/KG      | U  |
|       | 36-005 | 36-3022 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 360      | UG/KG      | ň  |
|       | 36-005 | 36-3021 | 0 | 6      | IN      | Bromophenyl-phenylether[4-]  | 400      | UG/KG      |    |
|       | 36-005 | 36-3020 | 0 | 6      | IN      | Bromonbenyl-phenylethor[4-]  | 400      | UG/KG      |    |
|       | 36-005 | 36-3019 | ñ | ē      | INI     | Bromophenyl-phenylether[4]   | 370      | UG/KG      | U  |
|       | 36-005 | 26 2019 | õ | č      | 11.5    | Bromophenyi-phenyiether[4-]  | 370      | UG/KG      | U  |
|       | 30-005 | 30-3018 | 0 | 0      | IN      | Bromophenyi-phenylether[4-]  | 350      | UG/KG      | U  |
|       | 36-005 | 30-3018 | U | 6      | IN      | Bromophenyl-phenylether[4-]  | 370      | UG/KG      | υ  |
|       | 36-005 | 36-3051 | 0 | 6      | IN      | Butanone[2-]                 | 20       | UG/KG      | U. |
|       | 36-005 | 36-3050 | 0 | 6      | IN      | Butanone[2-]                 | 22       | LIG/KG     | ũ  |
|       | 36-005 | 36-3050 | 0 | 6      | IN      | Butanone[2-]                 | 20       | LIG/KC     |    |
|       | 36-005 | 36-3049 | 0 | 6      | IN      | Butanone(2-)                 | ~~~      | UG/KG      | 0  |
|       | 36-005 | 36-3048 | Ō | é      | IN      | Butanone(2)                  | 22       | UG/KG      | υ  |
|       | 36 005 | 26 2047 | 0 | 0      | 111     | Butanone[2-]                 | 22       | UG/KG      | U  |
|       | 30-005 | 30-3047 | 0 | ь      | IN      | Butanone[2-]                 | 24       | UG/KG      | U  |
|       | 36-005 | 36-3046 | 0 | 6      | IN      | Butanone[2-]                 | 22       | UG/KG      | U  |
|       | 36-005 | 36-3045 | 0 | 6      | IN      | Butanone[2-]                 | 22       | UG/KG      | Ū. |
|       | 36-005 | 36-3044 | 0 | 6      | IN      | Butanone[2-]                 |          |            | ŭ  |
|       | 36-005 | 36-3043 | 0 | 6      | IN      | Butanone[2-]                 | 22       | UG/KG      |    |
|       | 36-005 | 36-3042 | 0 | 6      | IN      | Butanono[2]                  | 20       | UG/KG      | U  |
|       | 36-005 | 36-3042 | õ | é      | 1.1     |                              | 22       | UG/KG      | U  |
|       | 26 005 | 00 0042 | 0 | 0      | 41      | Butanone[2-]                 | 20       | UG/KG      | U  |
|       | 30-005 | 30-3041 | U | ь      | IN      | Butanone[2-]                 | 20       | UG/KG      | U  |
|       | 36-005 | 36-3040 | 0 | 6      | IN      | Butanone[2-]                 | 20       | UG/KG      | Ū. |
|       | 36-005 | 36-3039 | 0 | 6      | IN      | Butanone[2-]                 | 20       |            |    |
|       | 36-005 | 36-3038 | 0 | 6      | IN      | Butanone!2-1                 | 20       |            |    |
|       | 36-005 | 36-3037 | 0 | 6      | INI     | Butanono(2.1                 | <u> </u> | UG/KG      | U  |
|       | 36-005 | 36-3036 | õ | é      | 11.1    |                              | 20       | UG/KG      | U  |
|       | 26.005 | 26 2025 | 0 | 0      | 1111    | Butanone[2-]                 | 22       | UG/KG      | U  |
|       | 30-005 | 30-3035 | U | 6      | IN      | Butanone[2-]                 | 22       | UG/KG      | U  |
|       | 36-005 | 36-3034 | 0 | 6      | IN      | Butanone[2-]                 | 22       | UG/KG      | Ū  |
| 1     | 36-005 | 36-3034 | 0 | 6      | IN      | Butanone[2-]                 | 20       |            |    |
|       | 36-005 | 36-3026 | 0 | 6      | IN      | Butanone[2-]                 | 100      |            |    |
| Wile. | 36-005 | 36-3025 | 0 | 6      | IN      | Butanone[2-]                 | 100      |            | 0  |
|       |        |         | - | -      |         | DAGINGE I                    | 20       | 111-116-12 | 11 |

|        |          |        |          |       | <b>D</b>             | 24           | UG/KG  | U U  |
|--------|----------|--------|----------|-------|----------------------|--------------|--------|------|
| 36-005 | 36-3024  | 0      | 6        | IN    | Butanone[2-]         | 24           | 00,100 | , i  |
| 26.005 | 06 0000  | 0      | 6        | IN    | Butanone[2-]         | 22           | UG/KG  | U    |
| 30-005 | 30-3023  | 0      | 0        |       | Puterene(0.)         | 24           | UG/KG  | υ    |
| 36-005 | 36-3022  | 0      | 6        | IN    | butanone(2-)         | E4           | LIGIKG | Ū.   |
| 36-005 | 36-3021  | 0      | 6        | IN    | Butanone[2-]         | 24           | UG/KG  | 0    |
| 26 005 | 26 2020  | 0      | 6        | IN    | Butanone[2-]         | 22           | UG/KG  | U    |
| 30-005 | 30-3020  | 0      | 0        |       | Butanana[2]          | 22           | UG/KG  | υ    |
| 36-005 | 36-3019  | 0      | 6        | IN    | Butanone[2-]         |              |        | - Ĥ  |
| 36-005 | 36-3018  | 0      | 6        | IN    | Butanone[2-]         | 22           | UG/KG  | 0    |
| 26 005 | 26 2019  | Ô      | 6        | IN    | Butanone[2-]         | 22           | UG/KG  | U    |
| 30-005 | 30-3010  | 0      | 0        |       |                      | 5            | UG/KG  | U    |
| 36-005 | 36-3051  | 0      | 6        | IN    | Butyibenzene[n-]     |              | UONCO  | ŭ    |
| 36-005 | 36-3050  | 0      | 6        | IN    | Butylbenzene[n-]     | 6            | UG/KG  | U    |
| 00 000 | 00 0000  | -      | Ē        | INI   | Butylbenzene(n-)     | 6            | UG/KG  | U    |
| 36-005 | 30-3050  | U      | 0        | 111   |                      | 6            | LIG/KG | 11   |
| 36-005 | 36-3049  | 0      | 6        | IN    | Butyibenzene(n-)     | 0            |        |      |
| 36-005 | 36-3048  | 0      | 6        | IN    | Butylbenzene[n-]     | 6            | UG/KG  | 05   |
| 00 000 | 00 00 10 | 0      | é        | INI   | Butylbenzene(n-)     | 6            | UG/KG  | U    |
| 36-005 | 36-3047  | 0      | 0        | 11.5  |                      | 6            | UG/KG  | - 11 |
| 36-005 | 36-3046  | 0      | 6        | iN    | Butyibenzene[n-]     | 0            | Udina  |      |
| 36-005 | 36-3045  | 0      | 6        | IN    | Butylbenzene[n-]     | 6            | UG/KG  | 05   |
| 00 000 | 00 00 44 | 0      | 6        | IN    | Butylbenzene(n-)     | 6            | UG/KG  | UJ   |
| 36-005 | 36-3044  | U      | 0        |       | D t the second [1 ]  | 5            | LIG/KG | 11   |
| 36-005 | 36-3043  | 0      | 6        | IN    | Butyibenzene[n-]     | 5            | Udino  |      |
| 36-005 | 36-3042  | 0      | 6        | IN    | Butylbenzene[n-]     | 6            | UG/KG  | 05   |
| 00 000 | 00 00 10 | 0      | 6        | IN    | Butylbenzene(n-)     | 5            | UG/KG  | IJ   |
| 36-005 | 36-3042  | U      | 0        | li Ni |                      | E            | UG/KG  |      |
| 36-005 | 36-3041  | 0      | 6        | IN    | Butylbenzene[n-]     | 5            | UG/KG  | ŭ    |
| 36-005 | 36-3040  | 0      | 6        | IN    | Butylbenzene[n-]     | . 5          | UG/KG  | U    |
| 00-000 | 00 0010  | ő      | ē        | IN    | Butvibenzene[n-]     | 5            | UG/KG  | U    |
| 36-005 | 36-3039  | U      | 0        |       | Dutyiberizerie[ri]   | 6            | HG/KG  | 13   |
| 36-005 | 36-3038  | 0      | 6        | IN    | Butyibenzene[n-j     | 0            | Junita |      |
| 26.005 | 36-3037  | 0      | 6        | IN    | Butvibenzene[n-]     | 5            | UG/KG  | U    |
| 30-005 | 30-3037  | č      | č        | 163   | Butylbenzene[n_]     | 6            | UG/KG  | U    |
| 36-005 | 36-3036  | 0      | 6        | IN    | Butyibenzenetni-j    | ê            | UCIKO  |      |
| 36-005 | 36-3035  | 0      | 6        | IN    | Butylbenzene[n-]     | 6            | UG/KG  | U    |
| 00 000 | 26 2024  | 0      | 6        | IN    | Butylbenzene(n-)     | 6            | UG/KG  | U    |
| 36-005 | 30-3034  | U      | 0        |       | Dutyloonicono(n.)    | 5            | UG/KG  | U    |
| 36-005 | 36-3034  | 0      | 6        | IN    | Butyibenzene[n-]     | 3            |        | ŭ    |
| 36-005 | 36-3026  | 0      | 6        | IN    | Butylbenzene[n-]     | 25           | UG/KG  | U    |
| 00 000 | 00 0020  | 0      | Ē        | IN    | Butylbenzene(n-)     | 5            | UG/KG  | U    |
| 36-005 | 30-3025  | U      | 0        |       | Dutyloonzono[n]      | Ê            | LIG/KG | 11   |
| 36-005 | 36-3024  | 0      | 6        | iN    | Butyibenzene(n-)     | 0            |        |      |
| 36-005 | 36-3023  | 0      | 6        | IN    | Butylbenzene[n-]     | 6            | UG/KG  | UJ   |
| 00 000 | 00 0020  | 0      | 6        | IN    | But/ibenzene[n-]     | 6            | UG/KG  | U    |
| 36-005 | 36-3022  | U      | 0        | 11.1  |                      | Ē            | LIG/KG | 11.1 |
| 36-005 | 36-3021  | 0      | 6        | IN    | Butyibenzene[n-j     | 0            |        |      |
| 36-005 | 36-3020  | 0      | 6        | IN    | Butylbenzene(n-)     | 6            | UG/KG  | UJ   |
| 00-000 | 00 0020  | õ      | 6        | INI   | But/ibenzenein-i     | 6            | UG/KG  | υ    |
| 36-005 | 36-3019  | 0      | 0        | 11N   | Dutyibenzene[i+]     | -            | LIGKG  | 11   |
| 36-005 | 36-3018  | 0      | 6        | IN    | Butylbenzene[n-]     | 0            | UG/KG  | 0    |
| 26.005 | 26-2018  | 0      | 6        | IN    | Butvlbenzene(n-)     | 6            | UG/KG  | U    |
| 30-005 | 30-3010  | ő      | č        | 15.1  | Butulbenzene[sec-]   | 5            | UG/KG  | υ    |
| 36-005 | 36-3051  | 0      | 6        | IIN   | Butyiberizerie[sec-] | 0            |        |      |
| 36-005 | 36-3050  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | 0    |
| 26 005 | 26 2050  | 0      | 6        | IN    | Butvlbenzene(sec-)   | 6            | UG/KG  | U    |
| 30-005 | 30-3030  | 0      | 0        |       | Dutylberrene[eee.]   | 6            | LIG/KG | 11   |
| 36-005 | 36-3049  | 0      | 6        | IN    | Butylbenzene(sec-)   | 0            | Udita  |      |
| 36-005 | 36-3048  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | UJ   |
| 20 005 | 26 2047  | n<br>n | 6        | IN    | Butvibenzene(sec-)   | 6            | UG/KG  | U    |
| 36-005 | 30-3047  | U      | 0        |       | Daty/benzen/jeee ]   | 6            | LIG/KG |      |
| 36-005 | 36-3046  | 0      | 6        | IN    | Butyibenzene[sec-]   | 0            | UQ/RQ  |      |
| 36-005 | 36-3045  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | 05   |
| 00 000 | 00 00 44 | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | UJ   |
| 36-005 | 36-3044  | 0      | 0        |       | Dutyiberizerie[see ] | Ē            |        | 11   |
| 36-005 | 36-3043  | 0      | 6        | IN    | Butyidenzene[sec-]   | 5            | Uditta |      |
| 36-005 | 36-3042  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | UJ   |
| 00 005 | 00 0040  | ň      | 6        | IN    | Butvibenzenelsec-1   | 5            | UG/KG  | UJ   |
| 30-005 | 30-3042  | 0      | 0        |       | Dutylbonzono[coc ]   | 5            | LIG/KG | 11   |
| 36-005 | 36-3041  | 0      | 6        | IN    | Butyidenzene(sec-j   | 5            |        |      |
| 36-005 | 36-3040  | 0      | 6        | IN    | Butylbenzene[sec-]   | 5            | UG/KG  | U    |
| 20 005 | 26 2020  | ō      | 6        | IN    | Butylbenzenelsec-1   | 5            | UG/KG  | υ    |
| 30-005 | 30-3039  | -      | 2        | 1.4   | But the property is  | Ē            | LIG/KG | 11   |
| 36-005 | 36-3038  | 0      | 6        | IN    | ButyiDenzene[sec-]   | -            |        |      |
| 36-005 | 36-3037  | 0      | 6        | IN    | Butylbenzene[sec-]   | 5            | UG/KG  | U    |
| 00 005 | 26 2026  | 0      | 6        | IN    | Butylbenzene(sec-)   | 6            | UG/KG  | U    |
| 30-005 | 30-3030  | 0      |          |       |                      | 6            | LIG/KG |      |
| 36-005 | 36-3035  | 0      | 6        | IN    | Butyibenzene[sec-]   | 0            |        | ŭ    |
| 36-005 | 36-3034  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | U    |
| 00 005 | 06 0004  | ò      | 6        | IN    | Butylbenzene(sec-)   | 5            | UG/KG  | υ    |
| 36-005 | 30-3034  | 0      | 0        |       | Dutylbonizono[000 ]  | 25           | LIG/KG | п    |
| 36-005 | 36-3026  | 0      | 6        | IN    | butyipenzene[sec-]   | - 20         |        |      |
| 36-005 | 36-3025  | 0      | 6        | IN    | Butylbenzene[sec-]   | 5            | UG/KG  | U    |
| 00 000 | 00 0004  | -      | <u> </u> | IN    | Butvihenzenelsec-1   | 6            | UG/KG  | U    |
| 36-005 | 30-3024  | U      | D .      | 111   | Dutybenzono[aco-]    | 6            |        | -    |
| 36-005 | 36-3023  | 0      | 6        | IN    | Butyipenzene[sec-j   | <sup>o</sup> | Jana   | 00   |
| 36-005 | 36-3022  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | U    |
| 30-000 | 00-0022  | ~      | ~        | 141   | Butylbenzene[coc-]   | 6            | UG/KG  | U.I  |
| 36-005 | 36-3021  | U      | ь        | IN    | Dutyinenzene(sec.]   |              |        |      |
| 36-005 | 36-3020  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | UJ   |
| 36.005 | 36-2010  | 0      | 6        | IN    | Butvibenzeneisec-1   | 6            | UG/KG  | U    |
| 30-005 | 30-3019  | U<br>- |          | 114   | Dubilbonzonciese 1   | Ē            | LIG/KG | 11   |
| 36-005 | 36-3018  | 0      | 6        | IN    | Butyibenzene[sec-]   | U            |        |      |
| 36-005 | 36-3018  | 0      | 6        | IN    | Butylbenzene[sec-]   | 6            | UG/KG  | U    |
| 00 000 | 00 0000  | č      | 6        | INI   | Butylbenzeneltert-1  | 5            | UG/KG  | U    |
| 30-005 | 30-3051  | U      | D .      | 11 V  |                      | 6            | UGKG   | -    |
| 36-005 | 36-3050  | 0      | 6        | IN    | Butyidenzene[tert-]  | °,           |        |      |
| 36-005 | 36-3050  | 0      | 6        | IN    | Butylbenzene[tert-]  | 6            | UG/KG  | U    |
| 00-005 | 00-0000  | ž      | č        | INI   | Butybenzeneltert     | 6            | UG/KG  | U    |
| 36-005 | 36-3049  | U      | σ        | IIN   | Dutyingitzene[igit]  | 0            |        | -    |

| 36-005 | 36-3048 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | UJ    |
|--------|---------|---|--------|-------------|-----------------------|--------|--------|-------|
| 36-005 | 36-3047 | 0 | 6      | IN          | Butylbenzene(tert-)   | 6      | UG/KG  | υ     |
| 36-005 | 36-3046 | 0 | 6      | IN          | Butvibenzene(tert-)   | 6      | UG/KG  | U     |
| 36-005 | 36-3045 | Ő | é      | IN          | Butylbenzeno(tort )   | 6      | LIG/KG | , iii |
| 36 005 | 36 3044 | 0 | é      | IIN IN      | Butybenzene[(e)[-]    | 0      | UC/KC  |       |
| 30-005 | 30-3044 | 0 | 6      | IIN         | Butybenzene(tert-)    | 6      | UG/KG  | 00    |
| 36-005 | 36-3043 | 0 | 6      | IN          | Butyibenzene[tert-]   | 5      | UG/KG  | U     |
| 36-005 | 36-3042 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | UJ    |
| 36-005 | 36-3042 | 0 | 6      | IN          | Butylbenzene[tert-]   | 5      | UG/KG  | UJ    |
| 36-005 | 36-3041 | 0 | 6      | IN          | Butvibenzene(tert-)   | 5      | UG/KG  | U     |
| 36-005 | 36-3040 | 0 | 6      | IN          | Butylbenzene(tert-)   | 5      | UG/KG  | Ú.    |
| 26-005 | 36-2020 | õ | 6      | IN          | Butylbonzono(tort )   | 5      | UG/KG  | ŭ     |
| 30-005 | 30-3039 | 0 | 0      |             | Butylbenzene[tert-]   | 5      |        |       |
| 36-005 | 36-3038 | 0 | 6      | IN          | Butyibenzene[tert-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3037 | 0 | 6      | IN          | Butylbenzene[tert-]   | 5      | UG/KG  | U     |
| 36-005 | 36-3036 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | υ     |
| 36-005 | 36-3035 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3034 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3034 | 0 | 6      | IN          | Butylbenzene(tert-)   | 5      | UG/KG  | Ū     |
| 36-005 | 36-3026 | õ | e<br>e | IN          | Butylbenzene[tert-]   | 25     | UG/KG  | ŭ     |
| 00-000 | 00-0020 | 0 | 0      | 11.1        |                       | 25     |        |       |
| 36-005 | 30-3025 | 0 | 6      | IIN         | Butylbenzene[tert-]   | 5      | UG/KG  | U     |
| 36-005 | 36-3024 | 0 | 6      | IN          | Butylbenzene[tert-j   | 6      | UG/KG  | U     |
| 36-005 | 36-3023 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | UJ    |
| 36-005 | 36-3022 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3021 | 0 | 6      | IN          | Butvibenzene[tert-]   | 6 .    | UG/KG  | UJ    |
| 36-005 | 36-3020 | 0 | 6      | IN          | Butvibenzene[tert-]   | 6      | UG/KG  | 0.1   |
| 36-005 | 36-3019 | õ | e<br>e | IN          | Butylbenzene[tert_]   | 6      | UG/KG  | 11    |
| 30-005 | 00-0019 | ŏ | ç      | IN          |                       | 0      |        | 0     |
| 36-005 | 30-3018 | 0 | 0      | IN          | Butyibenzene[tert-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3018 | 0 | 6      | IN          | Butylbenzene[tert-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3051 | 0 | 6      | IN          | Butylbenzylphthalate  | 350    | UG/KG  | U     |
| 36-005 | 36-3050 | 0 | 6      | IN          | Butylbenzylphthalate  | 360    | UG/KG  | U     |
| 36-005 | 36-3050 | 0 | 6      | IN          | Butylbenzylphthalate  | 350    | UG/KG  | υ     |
| 36-005 | 36-3049 | 0 | 6      | IN          | Butylbenzylphthalate  | 340    | UG/KG  | Ū.    |
| 36-005 | 36-3048 | 0 | ē      | IN          | Butylbenzylphthalate  | 360    | UG/KG  | ŭ     |
| 26 005 | 26 2047 | õ | é      | 10          | Butylbenzylphthalate  | 300    |        | 0     |
| 30-005 | 30-3047 | 0 | 0      | 1/N         | Butyloenzylphinalate  | 390    | UG/KG  | U     |
| 36-005 | 36-3046 | 0 | 6      | IN          | Butylbenzylphthalate  | 360    | UG/KG  | U     |
| 36-005 | 36-3045 | 0 | 6      | IN          | Butylbenzylphthalate  | 380    | UG/KG  | U     |
| 36-005 | 36-3044 | 0 | 6      | IN          | Butylbenzylphthalate  | 380    | UG/KG  | U     |
| 36-005 | 36-3043 | 0 | 6      | IN          | Butylbenzylphthalate  | 360    | UG/KG  | U     |
| 36-005 | 36-3042 | 0 | 6      | IN          | Butylbenzylphthalate  | 350    | UG/KG  | ū     |
| 36-005 | 36-3042 | õ | 6      | IN          | Butylbenzylphthalate  | 340    |        | ŭ     |
| 36-005 | 26-2041 | õ | e      | INI         | Butybenzylphthalate   | 350    | UG/KG  |       |
| 36-005 | 30-3041 | 0 | 0      | iin iin i   | Butylberizyiphinalate | 350    | UG/KG  | 0     |
| 36-005 | 36-3040 | 0 | 6      | IN          | Butyibenzyiphthalate  | 350    | UG/KG  | U     |
| 36-005 | 36-3039 | 0 | 6      | IN          | Butylbenzylphthalate  | 340    | UG/KG  | U     |
| 36-005 | 36-3038 | 0 | 6      | IN          | Butylbenzylphthalate  | 360    | UG/KG  | υ     |
| 36-005 | 36-3037 | 0 | 6      | IN          | Butylbenzylphthalate  | 350    | UG/KG  | υ     |
| 36-005 | 36-3036 | 0 | 6      | IN          | Butylbenzylphthalate  | 340    | UG/KG  | U U   |
| 36-005 | 36-3035 | Ô | â      | IN          | Butylbenzylphthalate  | 350    | LIG/KG | ŭ     |
| 26 005 | 26 2024 | õ | é      | IN          | But de producto       | 050    | UG/KG  | 0     |
| 30-005 | 30-3034 | 0 | 0      | lini<br>Ini | Butyibenzyiphinalate  | 350    | UG/KG  | U     |
| 36-005 | 36-3034 | U | 6      | IN          | Butylbenzylphthalate  | 350    | UG/KG  | U     |
| 36-005 | 36-3026 | 0 | 6      | IN          | Butylbenzylphthalate  | 140000 | UG/KG  | U     |
| 36-005 | 36-3025 | 0 | 6      | IN          | Butylbenzylphthalate  | 360    | UG/KG  | U     |
| 36-005 | 36-3024 | 0 | 6      | IN          | Butylbenzylphthalate  | 400    | UG/KG  | U     |
| 36-005 | 36-3023 | 0 | 6      | IN          | Butylbenzylphthalate  | 370    | LIG/KG | ū     |
| 36-005 | 36-3022 | 0 | ē      | IN          | Butylbenzylohthalate  | 360    | UG/KG  |       |
| 36-005 | 26-2021 | ň | 5<br>F | 111         | Butilbonzulohtholoto  | 400    |        |       |
| 30-005 | 30-3021 | 0 | 0      | 111         | Butylbenzylphinalate  | 400    | UG/KG  | U     |
| 36-005 | 36-3020 | 0 | 6      | IN          | Butylbenzylphtnalate  | 370    | UG/KG  | U     |
| 36-005 | 36-3019 | 0 | 6      | IN          | Butylbenzylphthalate  | 370    | UG/KG  | υ     |
| 36-005 | 36-3018 | 0 | 6      | IN          | Butylbenzylphthalate  | 350    | UG/KG  | U     |
| 36-005 | 36-3018 | 0 | 6      | IN          | Butvibenzviphthalate  | 370    | UG/KG  | U     |
| 36-005 | NA      |   |        |             | Cadmium               | 13     | MG/KG  | •     |
| 36 005 | 26 2051 | 0 | 6      | INI         | Cadmium               | 0.00   | Marka  |       |
| 30-005 | 30-3031 | 0 | 0      | IN          | Caomum                | 0.39   | MG/KG  | U     |
| 36-005 | 36-3050 | 0 | 6      | IN          | Cadmium               | 0.51   | MG/KG  | U     |
| 36-005 | 36-3050 | 0 | 6      | IN          | Cadmium               | 0.38   | MG/KG  | U     |
| 36-005 | 36-3049 | 0 | 6      | IN          | Cadmium               | 0.4    | MG/KG  | U     |
| 36-005 | 36-3048 | 0 | 6      | IN          | Cadmium               | 0.48   | MG/KG  | U     |
| 36-005 | 36-3047 | 0 | 6      | IN          | Cadmium               | 0.42   | MG/KG  | ň     |
| 36-005 | 36-20/4 | ñ | ě      | INI         | Codmium               | 0.74   | MORG   |       |
| 30-005 | 00-0040 | 0 | 0      | <b>1</b> 11 | Cadmium               | 0.38   |        | 0     |
| 30-005 | 30-3045 | U | Ŭ      | IN          | Caomium               | 0.42   | MG/KG  | U     |
| 36-005 | 36-3044 | 0 | 6      | IN          | Cadmium               | 0.41   | MG/KG  | U     |
| 36-005 | 36-3043 | 0 | 6      | IN          | Cadmium               | 0.39   | MG/KG  | U     |
| 36-005 | 36-3042 | 0 | 6      | IN          | Cadmium               | 0.37   | MG/KG  | U     |
| 36-005 | 36-3042 | 0 | 6      | IN          | Cadmium               | 0.37   | MG/KG  | , i   |
| 36-005 | 36-2041 | ñ | e<br>e | INI         | Codmium               | 0.57   | Marka  |       |
| 30-003 | 30-3041 | 0 | 0      | 17.1        | Cadmium               | 0.52   |        | U     |
| 30-005 | 30-3040 | U | b      | IN          | Cadmium               | 0.55   | MG/KG  |       |
| 36-005 | 36-3039 | 0 | 6      | IN          | Cadmium               | 0.5    | MG/KG  | U     |

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| 36-005                                                                                                                                                                 | 36-3038                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.54                                                                                        | MG/KG                                                                                                    | 0                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 00 005                                                                                                                                                                 | 26 2027                                                                                                                                                                      | ě                                                                                           | č                                                                                      | INI                                       | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.52                                                                                        | MG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | 30-3037                                                                                                                                                                      | 0                                                                                           | D                                                                                      | IIN                                       | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.52                                                                                        | MG/KG                                                                                                    | 11                                                                                          |
| 36-005                                                                                                                                                                 | 36-3036                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.52                                                                                        | MG/KG                                                                                                    | ŭ                                                                                           |
| 36-005                                                                                                                                                                 | 36-3035                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.53                                                                                        | MG/KG                                                                                                    | U                                                                                           |
| 36.005                                                                                                                                                                 | 36-3034                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.52                                                                                        | MG/KG                                                                                                    | Ų                                                                                           |
| 30-005                                                                                                                                                                 | 30-3034                                                                                                                                                                      | U                                                                                           | 0                                                                                      |                                           | Cadilian                                                                                                                                                                                                                                                                                                                                         | 0.52                                                                                        | NC/KG                                                                                                    | . ii                                                                                        |
| 36-005                                                                                                                                                                 | 36-3034                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.53                                                                                        | WG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3026                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.38                                                                                        | MG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | 36-3025                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.39                                                                                        | MG/KG                                                                                                    | U                                                                                           |
| 00 005                                                                                                                                                                 | 00 0020                                                                                                                                                                      | ě                                                                                           | 0                                                                                      |                                           | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.41                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3024                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.41                                                                                        | MG/KG                                                                                                    | 0                                                                                           |
| 36-005                                                                                                                                                                 | 36-3023                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.42                                                                                        | MG/KG                                                                                                    | υ                                                                                           |
| 36-005                                                                                                                                                                 | 36-3022                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0 44                                                                                        | MG/KG                                                                                                    | U                                                                                           |
| 00 000                                                                                                                                                                 | 00 0022                                                                                                                                                                      | õ                                                                                           | č                                                                                      | 1.1                                       | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.11                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 30-3021                                                                                                                                                                      | 0                                                                                           | Ð                                                                                      | IIN                                       | Cadmum                                                                                                                                                                                                                                                                                                                                           | 0.44                                                                                        | WG/KG                                                                                                    | 0                                                                                           |
| 36-005                                                                                                                                                                 | 36-3020                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.41                                                                                        | MG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | 36-3019                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.4                                                                                         | MG/KG                                                                                                    | U                                                                                           |
| 00 005                                                                                                                                                                 | 26 2010                                                                                                                                                                      | 0                                                                                           | e e                                                                                    | INI                                       | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.41                                                                                        | MG/KG                                                                                                    | 11                                                                                          |
| 30-005                                                                                                                                                                 | 30-3010                                                                                                                                                                      | 0                                                                                           | 0                                                                                      | IIN IIN                                   | Caumum                                                                                                                                                                                                                                                                                                                                           | 0.41                                                                                        | Marka                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3018                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Cadmium                                                                                                                                                                                                                                                                                                                                          | 0.42                                                                                        | MG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | NA                                                                                                                                                                           |                                                                                             |                                                                                        |                                           | Calcium                                                                                                                                                                                                                                                                                                                                          | 22100                                                                                       | MG/KG                                                                                                    |                                                                                             |
| 26-005                                                                                                                                                                 | 36-3051                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 916                                                                                         | MG/KG                                                                                                    | U.                                                                                          |
| 30-005                                                                                                                                                                 | 30-3031                                                                                                                                                                      | 0                                                                                           | 0                                                                                      |                                           | Calcium                                                                                                                                                                                                                                                                                                                                          | 0040                                                                                        | Marta                                                                                                    | •                                                                                           |
| 36-005                                                                                                                                                                 | 36-3050                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 2040                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3050                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 2080                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3049                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 614                                                                                         | MG/KG                                                                                                    | U                                                                                           |
| 00-005                                                                                                                                                                 | 00 00 40                                                                                                                                                                     | č                                                                                           | č                                                                                      | 15.1                                      | Onlaium                                                                                                                                                                                                                                                                                                                                          | 2000                                                                                        | NOKO                                                                                                     | -                                                                                           |
| 36-005                                                                                                                                                                 | 36-3048                                                                                                                                                                      | 0                                                                                           | ю                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 2900                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3047                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1530                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3046                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1120                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 00 000                                                                                                                                                                 | 00 00 10                                                                                                                                                                     | õ                                                                                           | e<br>e                                                                                 | IN                                        | Coloium                                                                                                                                                                                                                                                                                                                                          | 5770                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 30-3045                                                                                                                                                                      | 0                                                                                           | 0                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 5770                                                                                        | NIG/RG                                                                                                   |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3044                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1870                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3043                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1150                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 00-005                                                                                                                                                                 | 00 00 40                                                                                                                                                                     | õ                                                                                           | č                                                                                      | INI                                       | Calaium                                                                                                                                                                                                                                                                                                                                          | 4780                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 30-3042                                                                                                                                                                      | 0                                                                                           | o                                                                                      | IN                                        | Galcium                                                                                                                                                                                                                                                                                                                                          | 4700                                                                                        | N/G/ICG                                                                                                  |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3042                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 4060                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3041                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1200                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 00 005                                                                                                                                                                 | 26 2040                                                                                                                                                                      | ñ                                                                                           | ē                                                                                      | INF                                       | Calcium                                                                                                                                                                                                                                                                                                                                          | 3330                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 30-005                                                                                                                                                                 | 30-3040                                                                                                                                                                      | U                                                                                           | Ð                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 0000                                                                                        | hanca                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3039                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1590                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3038                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1450                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 26 005                                                                                                                                                                 | 26 2027                                                                                                                                                                      | Ô.                                                                                          | 6                                                                                      | IM                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1870                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 30-005                                                                                                                                                                 | 30-3037                                                                                                                                                                      | 0                                                                                           | 0                                                                                      |                                           | Galcian                                                                                                                                                                                                                                                                                                                                          | 1700                                                                                        | MOKO                                                                                                     |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3036                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1760                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3035                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 3570                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 26 005                                                                                                                                                                 | 26-2024                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1640                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 30-005                                                                                                                                                                 | 30-3034                                                                                                                                                                      | 0                                                                                           | 0                                                                                      |                                           | Calcian                                                                                                                                                                                                                                                                                                                                          | 1700                                                                                        |                                                                                                          |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3034                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1720                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3026                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1340                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 26.005                                                                                                                                                                 | 36-3025                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 811                                                                                         | MG/KG                                                                                                    | UJ                                                                                          |
| 30-005                                                                                                                                                                 | 30-3023                                                                                                                                                                      | 0                                                                                           | ő                                                                                      | 114                                       | Oalaium                                                                                                                                                                                                                                                                                                                                          | 1500                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3024                                                                                                                                                                      | U                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1590                                                                                        | MG/KG                                                                                                    | J                                                                                           |
| 36-005                                                                                                                                                                 | 36-3023                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 2500                                                                                        | MG/KG                                                                                                    | J                                                                                           |
| 36-005                                                                                                                                                                 | 36-3022                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1830                                                                                        | MG/KG                                                                                                    | J                                                                                           |
| 00 000                                                                                                                                                                 | 00 0022                                                                                                                                                                      | ő                                                                                           | č                                                                                      | 141                                       | Calaium                                                                                                                                                                                                                                                                                                                                          | 2120                                                                                        | MG/KG                                                                                                    | 1                                                                                           |
| 36-005                                                                                                                                                                 | 36-3021                                                                                                                                                                      | 0                                                                                           | ь                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 2130                                                                                        | WG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3020                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 2030                                                                                        | MG/KG                                                                                                    | J                                                                                           |
| 36-005                                                                                                                                                                 | 36-3019                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 2170                                                                                        | MG/KG                                                                                                    | J                                                                                           |
| 00 000                                                                                                                                                                 | 00 0010                                                                                                                                                                      | <u>~</u>                                                                                    | ĉ                                                                                      | INI                                       | Coloium                                                                                                                                                                                                                                                                                                                                          | 1760                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3018                                                                                                                                                                      | U                                                                                           | D                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1700                                                                                        | MG/KG                                                                                                    |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3018                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Calcium                                                                                                                                                                                                                                                                                                                                          | 1500                                                                                        | MG/KG                                                                                                    | J                                                                                           |
| 36-005                                                                                                                                                                 | 36-3051                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                 | 5                                                                                           | UG/KG                                                                                                    | υ                                                                                           |
| 00 005                                                                                                                                                                 | 26 2050                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | INI                                       | Carbon Disulfido                                                                                                                                                                                                                                                                                                                                 | 6                                                                                           | LIG/KG                                                                                                   |                                                                                             |
| 36-005                                                                                                                                                                 | 30-3050                                                                                                                                                                      | 0                                                                                           | 0                                                                                      | 11.1                                      | Carbon Distance                                                                                                                                                                                                                                                                                                                                  | Ŭ                                                                                           | 00/100                                                                                                   | Ň                                                                                           |
| 36-005                                                                                                                                                                 | 36-3050                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                 | 6                                                                                           | UG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | 36-3049                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                 | 6                                                                                           | UG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | 36-3048                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                 | 6                                                                                           | UG/KG                                                                                                    | U                                                                                           |
| 00.005                                                                                                                                                                 | 00 0040                                                                                                                                                                      | ~                                                                                           | ~                                                                                      | 141                                       | Corbon Discillida                                                                                                                                                                                                                                                                                                                                | 5                                                                                           |                                                                                                          | , i                                                                                         |
| 30-005                                                                                                                                                                 | 30-3047                                                                                                                                                                      | U                                                                                           | o                                                                                      | IN                                        | Carbon Disulide                                                                                                                                                                                                                                                                                                                                  | D                                                                                           |                                                                                                          |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3046                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                 | 6                                                                                           | UG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | 36-3045                                                                                                                                                                      | 0                                                                                           | 6                                                                                      | IN                                        | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                 | 6                                                                                           | UG/KG                                                                                                    | U                                                                                           |
| 20 005                                                                                                                                                                 | 00 00 44                                                                                                                                                                     | -                                                                                           | Ē                                                                                      | INI                                       | Corbon Disulfido                                                                                                                                                                                                                                                                                                                                 | 6                                                                                           | LIG/KG                                                                                                   |                                                                                             |
| 36-005                                                                                                                                                                 |                                                                                                                                                                              | Δ<br>Δ                                                                                      |                                                                                        | IIN IIN                                   | Carbon Disulide                                                                                                                                                                                                                                                                                                                                  | · · · · · · · · · · · · · · · · · · ·                                                       | ound                                                                                                     |                                                                                             |
| 36-005                                                                                                                                                                 | 36-3044                                                                                                                                                                      | 0                                                                                           | ě                                                                                      |                                           |                                                                                                                                                                                                                                                                                                                                                  | -                                                                                           | 110/1/0                                                                                                  |                                                                                             |
| 30-003                                                                                                                                                                 | 36-3044<br>36-3043                                                                                                                                                           | 0<br>0                                                                                      | 6                                                                                      | IN                                        | Carbon Disulfide                                                                                                                                                                                                                                                                                                                                 | 5                                                                                           | UG/KG                                                                                                    | U                                                                                           |
| 36-005                                                                                                                                                                 | 36-3044<br>36-3043<br>36-3042                                                                                                                                                | 0<br>0<br>0                                                                                 | 6<br>6                                                                                 | IN<br>IN                                  | Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                                                                                                                             | 5                                                                                           | UG/KG<br>UG/KG                                                                                           | U<br>U                                                                                      |
| 36-005                                                                                                                                                                 | 36-3044<br>36-3043<br>36-3042<br>36-3042                                                                                                                                     | 0<br>0<br>0                                                                                 | 6<br>6                                                                                 | IN<br>IN<br>IN                            | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                                                                                                         | 5<br>6                                                                                      | UG/KG<br>UG/KG<br>UG/KG                                                                                  | U<br>U<br>11                                                                                |
| 36-005<br>36-005                                                                                                                                                       | 36-3044<br>36-3043<br>36-3042<br>36-3042                                                                                                                                     | 0<br>0<br>0                                                                                 | 6<br>6                                                                                 | IN<br>IN<br>IN                            | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                                                                                                         | 5<br>6<br>5                                                                                 | UG/KG<br>UG/KG<br>UG/KG                                                                                  | U<br>U<br>U                                                                                 |
| 36-005<br>36-005<br>36-005                                                                                                                                             | 36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3041                                                                                                                          | 0<br>0<br>0<br>0                                                                            | 6<br>6<br>6                                                                            | IN<br>IN<br>IN<br>IN                      | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                                                                                     | 5<br>6<br>5<br>5                                                                            | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                         | ບ<br>ບ<br>ບ                                                                                 |
| 36-005<br>36-005<br>36-005<br>36-005                                                                                                                                   | 36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040                                                                                                               | 0<br>0<br>0<br>0<br>0                                                                       | 6<br>6<br>6<br>6                                                                       | IN<br>IN<br>IN<br>IN                      | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                                                                 | 5<br>6<br>5<br>5<br>5                                                                       | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                | ບ<br>ບ<br>ບ<br>ບ                                                                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                         | 36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039                                                                                                    |                                                                                             | 6<br>6<br>6<br>6                                                                       | IN<br>IN<br>IN<br>IN<br>IN                | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                                             | 5<br>6<br>5<br>5<br>5                                                                       | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                | U<br>U<br>U<br>U<br>U                                                                       |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                         | 36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039                                                                                                    |                                                                                             | 6<br>6<br>6<br>6<br>6                                                                  | IN<br>IN<br>IN<br>IN<br>IN                | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                                             | 5<br>6<br>5<br>5<br>5<br>5                                                                  | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                | ບ<br>ບ<br>ບ<br>ບ<br>ບ                                                                       |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                               | 36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038                                                                                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                        | 6<br>6<br>6<br>6<br>6                                                                  | IN<br>IN<br>IN<br>IN<br>IN<br>IN          | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                                         | 5<br>6<br>5<br>5<br>5<br>5<br>6                                                             | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                       | 0<br>0<br>0<br>0<br>0<br>0                                                                  |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                     | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037                                                                              |                                                                                             | 6<br>6<br>6<br>6<br>6<br>6                                                             | IN<br>IN<br>IN<br>IN<br>IN<br>IN<br>IN    | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                     | 5<br>6<br>5<br>5<br>5<br>6<br>5                                                             | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                              |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                           | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3041<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036                                                                   | 000000000000000000000000000000000000000                                                     | 6<br>6<br>6<br>6<br>6<br>6<br>6                                                        |                                           | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                     | 5<br>6<br>5<br>5<br>5<br>5<br>6<br>5<br>6                                                   | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                     |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                           | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036                                                                              |                                                                                             | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                                   |                                           | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                                                                     | 5<br>6<br>5<br>5<br>5<br>5<br>6<br>5<br>6                                                   | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                       | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3041<br>36-3039<br>36-3039<br>36-3038<br>36-3036<br>36-3035                                                                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                   | 6<br>6<br>6<br>6<br>6<br>6<br>6                                                        | N<br>N<br>N<br>N<br>N<br>N<br>N<br>N      | Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide<br>Carbon Disulfide                                                                                                                                             | 5<br>6<br>5<br>5<br>5<br>6<br>5<br>6<br>6                                                   | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                            |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                             | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034                                                        | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                    | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                              | N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N | Carbon Disulfide<br>Carbon Disulfide                                                                                                                         | 5<br>6<br>5<br>5<br>5<br>6<br>5<br>6<br>6<br>6<br>6                                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                            | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                       | 36-3044<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034                                             |                                                                                             | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                         |                                           | Carbon Disulfide<br>Carbon Disulfide                                                                                                                         | 5<br>6<br>5<br>5<br>5<br>6<br>5<br>6<br>6<br>6<br>5<br>5                                    | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                            |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                         | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034                                  |                                                                                             | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                          |                                           | Carbon Disulfide<br>Carbon Disulfide                                                                                                     | 5<br>6<br>5<br>5<br>5<br>6<br>5<br>6<br>6<br>6<br>6<br>5<br>6                               | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                            |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                   | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3039<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034<br>36-3026                                  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                    |                                           | Carbon Disulfide<br>Carbon Disulfide                                                             | 5<br>5<br>5<br>5<br>5<br>6<br>6<br>6<br>6<br>5<br>25                                        | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                   | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3024<br>36-3026<br>36-3025                       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6           |                                           | Carbon Disulfide<br>Carbon Disulfide                                         | 5<br>6<br>5<br>5<br>5<br>6<br>6<br>6<br>6<br>6<br>5<br>25<br>5                              | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                       |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                     | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3038<br>36-3038<br>36-3036<br>36-3035<br>36-3034<br>36-3026<br>36-3025<br>36-3024                       |                                                                                             | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6      |                                           | Carbon Disulfide<br>Carbon Disulfide                                         | 5<br>6<br>5<br>5<br>5<br>6<br>5<br>6<br>6<br>6<br>5<br>5<br>6<br>5<br>5<br>6<br>5<br>5<br>6 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                       |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005 | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3024<br>36-3025<br>36-3025<br>36-3024 |                                                                                             | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6      |                                           | Carbon Disulfide<br>Carbon Disulfide                                         | 5<br>6<br>5<br>5<br>5<br>6<br>6<br>6<br>6<br>6<br>5<br>25<br>5<br>6                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005 | 36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3024<br>36-3025<br>36-3024<br>36-3023 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6 |                                           | Carbon Disulfide<br>Carbon Disulfide | 5<br>6<br>5<br>5<br>6<br>6<br>5<br>6<br>6<br>5<br>5<br>5<br>6<br>6<br>6<br>6<br>6           | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG |                                                                                             |
|             | 00.005 | 00.0004  | 0      | ~       |            |                           | 0      |        |      |  |
|-------------|--------|----------|--------|---------|------------|---------------------------|--------|--------|------|--|
|             | 36-005 | 36-3021  | U      | 6       | IN         | Carbon Disulfide          | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3020  | 0      | 6       | IN         | Carbon Disulfide          | 6      | UG/KG  | U    |  |
| No          | 36-005 | 36-3019  | 0      | 6       | IN         | Carbon Disulfide          | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3018  | 0      | 6       | IN         | Carbon Disulfide          | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3018  | 0      | 6       | IN         | Carbon Disulfide          | 6      | LIG/KG | 11   |  |
|             | 36-005 | 36-3051  | õ      | ŝ       | IN         | Carbon Tatraphlarida      | 5      |        | U U  |  |
|             | 30-005 | 00-0050  | 0      | 0       | IN         |                           | 5      |        | 0    |  |
|             | 36-005 | 36-3050  | 0      | 6       | IN         | Carbon Tetrachioride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3050  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3049  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3048  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3047  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | Ú.   |  |
|             | 36-005 | 36-3046  | ō      | 6       | IN         | Carbon Tetrachloride      | 6      | LIG/KG | 11   |  |
|             | 26 005 | 26 2045  | 0      | ç       | HAN HAN    | Carbon Tetrachloride      | 6      |        | 0    |  |
|             | 30-005 | 30-3045  | 0      | 0       | IIN IIN    | Carbon Tetrachionde       | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3044  | 0      | 6       | IN         | Carbon Tetrachioride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3043  | 0      | 6       | IN         | Carbon Tetrachloride      | 5      | UG/KG  | U    |  |
|             | 36-005 | 36-3042  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3042  | 0      | 6       | IN         | Carbon Tetrachloride      | 5      | UG/KG  | U    |  |
|             | 36-005 | 36-3041  | 0      | 6       | IN         | Carbon Tetrachloride      | 5      | UG/KG  | U    |  |
|             | 36-005 | 36-3040  | 0      | 6       | IN         | Carbon Tetrachloride      | 5      | UG/KG  | Ū.   |  |
|             | 36-005 | 36-3039  | Ō      | 6       | IN         | Carbon Tetrachloride      | 5      | UG/KG  | U U  |  |
|             | 26 005 | 26 2029  | õ      | 6       | IN IN      | Carbon Tetrachloride      | 5      |        | 0    |  |
|             | 30-005 | 30-3036  | 0      | 0       | lin        |                           | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3037  | U      | 0       | IN         | Carbon Tetrachioride      | 5      | UG/KG  | U    |  |
|             | 36-005 | 36-3036  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3035  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3034  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3034  | 0      | 6       | IN         | Carbon Tetrachloride      | 5      | UG/KG  | U    |  |
|             | 36-005 | 36-3026  | 0      | 6       | IN         | Carbon Tetrachloride      | 25     | UG/KG  | Ū    |  |
|             | 36-005 | 36-3025  | 0<br>0 | 6       | IN         | Carbon Tetrachloride      | 5      | UG/KG  | U U  |  |
|             | 36-005 | 36-3024  | õ      | é       | IN         | Carbon Tetrachloride      | 5      | UC/KC  | 0    |  |
|             | 30-005 | 30-3024  | 0      | 0       | HN IN I    | Carbon Tetrachlonde       | 0      | UG/KG  | U    |  |
|             | 36-005 | 36-3023  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3022  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3021  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3020  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3019  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | U    |  |
|             | 36-005 | 36-3018  | 0      | 6       | IN         | Carbon Tetrachloride      | 6      | UG/KG  | Ŭ    |  |
|             | 36-005 | 36-3018  | 0      | ē       | IN         | Carbon Tetrachloride      | 6      |        |      |  |
| , *         | 26.005 | 26 2051  | 0      | 6       | IN IN      | Chlore 2 methylphenel(4)  | 710    |        | 0    |  |
|             | 36-005 | 30-3051  | 0      | 0       | 1111       | Chloro-3-methylphenol[4-] | 710    | UG/KG  | U    |  |
| Sec.        | 36-005 | 36-3050  | U      | 6       | IN         | Chloro-3-methylphenol[4-] | 710    | UG/KG  | U    |  |
|             | 36-005 | 36-3050  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 700    | UG/KG  | U    |  |
|             | 36-005 | 36-3049  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 680    | UG/KG  | U    |  |
|             | 36-005 | 36-3048  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 730    | UG/KG  | U    |  |
|             | 36-005 | 36-3047  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 780    | UG/KG  | U.   |  |
|             | 36-005 | 36-3046  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 720    | UG/KG  | Ű    |  |
|             | 36-005 | 36-3045  | Õ      | 6       | IN         | Chloro-3-methylphonol[4-] | 720    | UG/KG  | 0    |  |
|             | 36.005 | 30-3043  | 0      | 0       |            | Chioro-3-methylphenol(4-) | 760    |        | U    |  |
|             | 30-005 | 30-3044  | 0      | D       | HN         | Chioro-3-methylphenoi[4-] | 760    | UG/KG  | U    |  |
|             | 36-005 | 36-3043  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 730    | UG/KG  | U    |  |
|             | 36-005 | 36-3042  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 700    | UG/KG  | U    |  |
|             | 36-005 | 36-3042  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 690    | UG/KG  | U    |  |
|             | 36-005 | 36-3041  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 690    | UG/KG  | 11.1 |  |
|             | 36-005 | 36-3040  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 690    |        |      |  |
|             | 36-005 | 36.3030  | õ      | 6       | INI        | Chloro-2-methylphonol[4]  | 630    | UC/KC  | 03   |  |
|             | 30-005 | 30-3039  | 0      | 0       | IIN INI    | Chlore 9 weth Jahren (4-) | 670    | UG/KG  | 00   |  |
|             | 30-005 | 30-3038  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | /10    | UG/KG  | UJ   |  |
|             | 36-005 | 36-3037  | U      | ti<br>- | IN         | Unioro-3-methylphenol[4-] | 690    | UG/KG  | UJ   |  |
|             | 36-005 | 36-3036  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 680    | UG/KG  | UJ   |  |
|             | 36-005 | 36-3035  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 710    | UG/KG  | UJ · |  |
|             | 36-005 | 36-3034  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 700    | UG/KG  | UJ   |  |
|             | 36-005 | 36-3034  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 710    | UG/KG  | 6.   |  |
|             | 36-005 | 36-3026  | 0      | ě       | IN         | Chloro-3-methylphenol[4-] | 270000 | UG/KG  | 11   |  |
|             | 26-005 | 36.2025  | õ      | e<br>e  | INI        | Chloro 2 methylphenol(4 ) | 270000 |        | 0    |  |
|             | 30-005 | 30-3023  | 0      | 0       | ETN .      | Chioro-3-methyphenol(4-)  | 730    | UG/KG  | U    |  |
|             | 36-005 | 36-3024  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 800    | UG/KG  | U    |  |
|             | 36-005 | 36-3023  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 740    | UG/KG  | U    |  |
|             | 36-005 | 36-3022  | 0      | 6       | IN         | Chioro-3-methylphenol[4-] | 710    | UG/KG  | U    |  |
|             | 36-005 | 36-3021  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 810    | UG/KG  | U    |  |
|             | 36-005 | 36-3020  | 0      | 6       | IN         | Chloro-3-methylphenol[4-1 | 740    | UG/KG  | Ū.   |  |
|             | 36-005 | 36-3010  | õ      | Â       | IN         | Chloro-3-methylphonol[4-] | 740    |        |      |  |
|             | 26.005 | 36 30 19 | 0      | 0       | 11.1       |                           | /40    |        | 0    |  |
|             | 30-005 | 30-3018  | U      | b       | IN         | Chioro-3-methylphenol[4-] | 690    | UG/KG  | U    |  |
|             | 36-005 | 36-3018  | 0      | 6       | IN         | Chloro-3-methylphenol[4-] | 730    | UG/KG  | U    |  |
|             | 36-005 | 36-3051  | 0      | 6       | IN         | Chloroaniline[4-]         | 710    | UG/KG  | U    |  |
|             | 36-005 | 36-3050  | 0      | 6       | IN         | Chloroaniline[4-]         | 710    | UG/KG  | U    |  |
|             | 36-005 | 36-3050  | 0      | 6       | IN         | Chloroaniline[4-]         | 700    | UG/KG  | Ū    |  |
|             | 36-005 | 36-3049  | Ō      | 6       | IN         | Chloroaniline[4-]         | 690    | UG/KG  | ŭ    |  |
|             | 36-005 | 36.3040  | õ      | e<br>e  | IN I       | Chloroppilice[4]          | 700    |        | 0    |  |
|             | 30-003 | 30-3040  | 0      | U<br>C  | IIN<br>INI |                           | /30    | UG/KG  | U    |  |
| à.          | 30-005 | 30-3047  | U      | 6       | IN         | Chioroaniline[4-]         | 780    | UG/KG  | U    |  |
| 20 A. A. A. | 36-005 | 36-3046  | 0      | 6       | IN         | Chloroaniline[4-]         | 720    | UG/KG  | U    |  |

|        |          | ^        |        |       | Obtained in a literation 1 | 760      |        |     |
|--------|----------|----------|--------|-------|----------------------------|----------|--------|-----|
| 36-005 | 36-3045  | 0        | 6      | IN    | Chioroaniline[4-)          | 700      | Uand   | ŭ   |
| 36-005 | 36-3044  | 0        | 6      | IN    | Chloroaniline[4-]          | 760      | UG/KG  | U   |
| 36-005 | 36-3043  | 0        | 6      | IN    | Chloroaniline[4-]          | 730      | UG/KG  | U   |
| 00 005 | 00-0040  | õ        | 0      | 151   | Chloroaniino[4]            | 700      | UG/KG  |     |
| 36-005 | 36-3042  | 0        | ь      | IN    | Chioroaniine[4-]           | 100      | Uanta  |     |
| 36-005 | 36-3042  | 0        | 6      | IN    | Chloroaniline[4-]          | 690      | UG/KG  | U   |
| 36-005 | 36-3041  | 0        | 6      | IN    | Chloroaniline[4-]          | 690      | UG/KG  | U   |
| 00 000 | 26 2040  | 0        | ē      | iNi   | Chloroaniline[4-]          | 690      | UG/KG  | U   |
| 30-005 | 36-3040  | 0        | 0      | 11 1  |                            | 030      | UQIXQ  | Ŭ   |
| 36-005 | 36-3039  | 0        | 6      | IN    | Chloroaniline[4-]          | 670      | UG/KG  | 0   |
| 36-005 | 36-3038  | 0        | 6      | IN    | Chloroaniline[4-]          | 710      | UG/KG  | U   |
| 00 000 | 00 0000  | õ        | č      | INI   | Chloroaniline[4-]          | 690      | LIG/KG |     |
| 36-005 | 36-3037  | 0        | ъ      | IIN   | Chioroaninne[4-]           | 090      | UGIKG  |     |
| 36-005 | 36-3036  | 0        | 6      | IN    | Chloroaniline[4-]          | 680      | UG/KG  | U   |
| 36-005 | 36-3035  | 0        | 6      | IN    | Chloroaniline[4-]          | 710      | UG/KG  | U   |
| 00 000 | 00 0000  | õ        | č      | INI   | Chloroanilino[4-]          | 700      |        | 11  |
| 36-005 | 36-3034  | 0        | b      | IN    | Chiloroanini le[+*]        | 700      |        |     |
| 36-005 | 36-3034  | 0        | 6      | IN    | Chloroaniline[4-]          | /10      | UG/KG  | U   |
| 36-005 | 36-3026  | 0        | 6      | IN    | Chloroaniline[4-]          | 270000   | UG/KG  | U   |
| 00.000 | 00 0020  | õ        | e      | IN    | Chloroaniline[4-]          | 730      | LIG/KG | 11  |
| 36-005 | 30-3025  | 0        | 0      | IIN   | Chioroaniinie[++]          | 750      |        |     |
| 36-005 | 36-3024  | 0        | 6      | IN    | Chloroaniline[4-]          | 800      | UG/KG  | U   |
| 36-005 | 36-3023  | 0        | 6      | IN    | Chloroaniline[4-]          | 740      | UG/KG  | U   |
| 00 000 | 26 2022  | õ        | Ē      | INI   | Chloroaniline[4-]          | 710      | UG/KG  | 11  |
| 36-005 | 30-3022  | U        | 0      | IIN   | Chioroannine[4-]           | 710      | Uditta |     |
| 36-005 | 36-3021  | 0        | 6      | IN    | Chloroaniline[4-]          | 810      | UG/KG  | 0   |
| 36-005 | 36-3020  | 0        | 6      | IN    | Chloroaniline[4-]          | 740      | UG/KG  | U   |
| 00 000 | 00 0010  | ~        | ē      | INI   | Chloroapilipo[4-]          | 740      | UG/KG  | 11  |
| 36-005 | 36-3019  | U        | 0      | 111   | Chioroanini le[4+]         | 740      |        |     |
| 36-005 | 36-3018  | 0        | 6      | IN    | Chloroaniline[4-]          | 690      | UG/KG  | U   |
| 36-005 | 36-3018  | 0        | 6      | IN    | Chloroaniline[4-]          | 730      | UG/KG  | U   |
| 00 000 | 00 0054  | ,<br>,   | č      | INI   | Chlorobonzono              | 5        | UG/KG  | 11  |
| 36-005 | 36-3051  | U        | Ð      | IIN   | Chlorobertzene             | 5        |        | ŭ   |
| 36-005 | 36-3050  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 36-005 | 36-3050  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 30-003 | 00-0000  | Š        | č      | 114   | Chlorobonzono              | -<br>-   | UGKG   |     |
| 36-005 | 36-3049  | U        | 6      | IN    | Chlorobenzene              | 0        | Uarka  | 0   |
| 36-005 | 36-3048  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 36-005 | 36-3047  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 00 000 | 00 00 10 | õ        | č      | 151   | Chlorabanzana              | 6        | UC/KG  | 11  |
| 36-005 | 36-3046  | U        | ю      | IN    | Chlorobenzene              | 0        | Udika  |     |
| 36-005 | 36-3045  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 36-005 | 36-3044  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | υ   |
| 00 005 | 26 2042  | 0        | e<br>e | INI   | Chlorobenzene              | 5        | LIG/KG | 11  |
| 30-005 | 30-3043  | U        | 0      | IIN   | Chilotoberizerie           | 5        | UQIKQ  |     |
| 36-005 | 36-3042  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | 00  |
| 36-005 | 36-3042  | 0        | 6      | IN    | Chlorobenzene              | 5        | UG/KG  | U   |
| 26 005 | 36 2041  | 0        | 6      | INI   | Chlorobenzene              | 5        | LIG/KG | 11  |
| 30-005 | 30-3041  | U        | 0      | HN    | Onioroberizerie            | -        | UQ/KQ  | ŭ   |
| 36-005 | 36-3040  | 0        | 6      | IN    | Chlorobenzene              | 5        | UG/KG  | U   |
| 36-005 | 36-3039  | 0        | 6      | IN    | Chlorobenzene              | 5        | UG/KG  | U   |
| 00 005 | 26 2028  | 0        | 6      | INI   | Chlorobenzene              | 6        | LIG/KG | 11  |
| 30-005 | 30-3030  | 0        | 0      | IIN   | Childrobenzene             | 0        | 00/100 | Ň   |
| 36-005 | 36-3037  | 0        | 6      | IN    | Chlorobenzene              | 5        | UG/KG  | U   |
| 36-005 | 36-3036  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 00 000 | 26 2025  | õ        | ě      | INI   | Chlorobenzone              | ĥ        |        | 11  |
| 30-005 | 30-3035  | 0        | 0      | HN    | Childrobenzene             | 0        | UQ/KQ  |     |
| 36-005 | 36-3034  | 0        | 6      | IN    | Chiorobenzene              | 6        | UG/KG  | U   |
| 36-005 | 36-3034  | 0        | 6      | IN    | Chlorobenzene              | 5        | UG/KG  | U   |
| 26 005 | 26 2026  | 0        | Ē      | INI   | Chlorobenzene              | 25       | UG/KG  |     |
| 30-005 | 30-3020  | 0        | 0      | IEN   | Chloroberizene             | 25       | UQ/KQ  | ŭ   |
| 36-005 | 36-3025  | 0        | 6      | IN    | Chlorobenzene              | 5        | UG/KG  | U   |
| 36-005 | 36-3024  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 26 005 | 26 2022  | 0        | 6      | INI   | Chlorobenzene              | 6        | LIG/KG | 11  |
| 30-003 | 30-3023  | 0        | 0      |       | Olitoroberizerie           | 0        | Noko   | ŭ   |
| 36-005 | 36-3022  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 36-005 | 36-3021  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 36-005 | 36-3020  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 00-005 | 00-0020  |          | ç      | 141   | Chierobanzana              | 6        | LIG/KG |     |
| 30-005 | 30-3019  | U        | 0      | IIN   | Chiorobenzene              | <b>D</b> | UG/KG  |     |
| 36-005 | 36-3018  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | υ   |
| 36-005 | 36-3018  | 0        | 6      | IN    | Chlorobenzene              | 6        | UG/KG  | U   |
| 00-005 | 00 0010  | 0        | č      | 1.1   | Chloradibramamathana       | Ē        |        | ū   |
| 36-005 | 36-3051  | 0        | D      | IN    | Chlorodibromomethane       | 5        | UG/NG  | U   |
| 36-005 | 36-3050  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | U   |
| 36-005 | 36-3050  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | U   |
| 00 000 | 00 0000  | õ        | ě      | INI   | Chlorodibromomothano       | Ē        |        | - ū |
| 30-005 | 30-3049  | 0        | 0      | IIN   | Chiorodibromomethane       | 0        | 00/KG  |     |
| 36-005 | 36-3048  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | U   |
| 36-005 | 36-3047  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | U   |
| 00 005 | 26 2046  | 0        | ē      | INI   | Chlorodibromomothana       | 6        | LIG/KG |     |
| 30-005 | 30-3040  | U        | 0      | UN    | Chlorodibromometriarie     | 0        | Udind  |     |
| 36-005 | 36-3045  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | U   |
| 36-005 | 36-3044  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | U   |
| 26.005 | 26.2042  | -        | Ē      | 151   | Chlorodibromomethane       | 5        | LIG/KG | H   |
| 30-005 | 30-3043  | U        | 0      | 1111  | Ghiorodibromomethane       | 5        |        | U   |
| 36-005 | 36-3042  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | UJ  |
| 36-005 | 36-3042  | 0        | 6      | IN    | Chlorodibromomethane       | 5        | UG/KG  | U   |
| 26 005 | 26 2041  | <u>,</u> | Ê      | INI   | Chlorodibromomothana       | -<br>E   | LIG/KG |     |
| 30-005 | 30-3041  | U        | 0      | IIN . | Chicrountomethane          | 5        | Jana   |     |
| 36-005 | 36-3040  | 0        | 6      | IN    | Chlorodibromomethane       | 5        | UG/KG  | U   |
| 36-005 | 36-3039  | 0        | 6      | IN    | Chlorodibromomethane       | 5        | UG/KG  | U   |
| 26.005 | 36 3039  | ň        | 6      | IN    | Chlorodibromomothere       | <u> </u> | LIG/KG |     |
| 30-005 | 30-3038  | U        | 0      | UN    | Chlorodibromomethane       | 0        |        |     |
| 36-005 | 36-3037  | 0        | 6      | IN    | Chlorodibromomethane       | 5        | UG/KG  | U   |
| 36-005 | 36-3036  | 0        | 6      | IN    | Chlorodibromomethane       | 6        | UG/KG  | U   |
| 26 005 | 20 2000  | Š        | Ē      | 141   | Chlorodibromomothano       | -<br>-   | LIG/KG | ŭ   |
| 30-005 | 30-3035  | U        | D      | IIN   | CHOROGODOTIONELIANE        | 0        | JUNIO  | U   |

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|          | 36-005 | 36-3034 | 0 | 6      | IN         | Chlorodibromomethane | 6  | UG/KG | υ   |
|----------|--------|---------|---|--------|------------|----------------------|----|-------|-----|
|          | 36-005 | 36-3034 | 0 | 6      | iN         | Chlorodibromomethane | 5  | UG/KG | U   |
|          | 36-005 | 36-3026 | 0 | 6      | IN         | Chlorodibromomethane | 25 | UG/KG | U   |
| w. · .   | 36-005 | 36-3025 | Ō | 6      | IN         | Chlorodibromomethane | 5  | UG/KG | υ   |
|          | 36-005 | 36-3024 | õ | 6      | IN         | Chlorodibromomethane | ŝ  | UG/KG | ŭ   |
|          | 36-005 | 36-3023 | õ | 6      | IN         | Chlorodibromomethane | ŝ  |       | ŭ   |
|          | 36-005 | 36-3022 | õ | 6      | IN         | Chlorodibromomethane | 6  |       | ŭ   |
|          | 36-005 | 36-3021 | õ | 6      | IN         | Chlorodibromomethane | 6  |       | 1   |
|          | 36.005 | 26 2020 | 0 | 0      | IN         | Chlorodibromomethane | 6  |       | 0   |
|          | 30-005 | 30-3020 | 0 | 6      | IN         | Chlorodibromomethane | 6  | UG/KG | 0   |
|          | 36-005 | 30-3019 | 0 | 6      | IN         | Chiorodibromometnane | 6  | UG/KG | U   |
|          | 36-005 | 36-3018 | 0 | 6      | IN         | Chiorodibromomethane | 6  | UG/KG | U   |
|          | 36-005 | 36-3018 | 0 | 6      | IN         | Chlorodibromomethane | 6  | UG/KG | U   |
|          | 36-005 | 36-3051 | 0 | 6      | IN         | Chloroethane         | 10 | UG/KG | U   |
|          | 36-005 | 36-3050 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3050 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3049 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3048 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3047 | 0 | 6      | IN         | Chloroethane         | 12 | UG/KG | U   |
|          | 36-005 | 36-3046 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3045 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3044 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3043 | 0 | 6      | IN         | Chloroethane         | 10 | UG/KG | U   |
|          | 36-005 | 36-3042 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3042 | 0 | 6      | IN         | Chloroethane         | 10 | UG/KG | U   |
|          | 36-005 | 36-3041 | 0 | 6      | IN         | Chioroethane         | 10 | UG/KG | U   |
|          | 36-005 | 36-3040 | 0 | 6      | IN         | Chioroethane         | 10 | UG/KG | Ū   |
|          | 36-005 | 36-3039 | 0 | 6      | IN         | Chloroethane         | 10 | UG/KG | Ū   |
|          | 36-005 | 36-3038 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | Ū.  |
|          | 36-005 | 36-3037 | 0 | 6      | IN         | Chloroethane         | 10 | UG/KG | ŭ   |
|          | 36-005 | 36-3036 | Ō | 6      | IN         | Chloroethane         | 11 | UG/KG | ŭ   |
|          | 36-005 | 36-3035 | Ō | 6      | IN         | Chloroethane         | 11 |       | ŭ   |
|          | 36-005 | 36-3034 | ō | 6      | IN         | Chloroethane         | 11 |       |     |
|          | 36-005 | 36-3034 | 0 | ē      | IN         | Chloroethane         | 10 |       |     |
|          | 36-005 | 36-3026 | õ | 6      | 1N         | Chloroethane         | 50 |       |     |
|          | 36-005 | 36-3025 | Ő | 6      | IN         | Chloroethane         | 10 |       | U U |
|          | 36-005 | 36-3024 | 0 | 6      | IN         | Chloroethane         | 10 |       | 0   |
|          | 36-005 | 36-3023 | Ő | 6      | IN         | Chloroethane         | 12 |       |     |
|          | 36-005 | 36-3023 | 0 | 6      | 151        | Chloroethane         | 12 |       | 0   |
| Barrie C | 36-005 | 30-3022 | 0 | 0      | IN         | Chloroethane         | 12 | UG/KG | 0   |
|          | 36-005 | 30-3021 | 0 | 0      | 1IN<br>INI | Chloroethane         | 12 | UG/KG | 0   |
|          | 36-005 | 36-3020 | 0 | 0      | IIN        | Chloroethane         | 11 | UG/KG | 0   |
|          | 30-005 | 30-3019 | 0 | 0      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3018 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3018 | 0 | 6      | IN         | Chloroethane         | 11 | UG/KG | U   |
|          | 36-005 | 36-3051 | 0 | 6      | IN         | Chloroform           | 5  | UG/KG | U   |
|          | 36-005 | 36-3050 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3050 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3049 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3048 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3047 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3046 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3045 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3044 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3043 | 0 | 6      | IN         | Chloroform           | 5  | UG/KG | U   |
|          | 36-005 | 36-3042 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3042 | 0 | 6      | IN         | Chloroform           | 5  | UG/KG | U   |
|          | 36-005 | 36-3041 | 0 | 6      | IN         | Chloroform           | 5  | UG/KG | υ   |
|          | 36-005 | 36-3040 | 0 | 6      | IN         | Chloroform           | 5  | UG/KG | Ū   |
|          | 36-005 | 36-3039 | 0 | 6      | IN         | Chioroform           | 5  | UG/KG | ŭ   |
|          | 36-005 | 36-3038 | Ó | 6      | IN         | Chloroform           | 6  | UG/KG | ŭ   |
|          | 36-005 | 36-3037 | õ | 6      | IN         | Chloroform           | 5  |       | ŭ   |
|          | 36-005 | 36-3036 | Ő | ě      | IN         | Chloroform           | 5  | UG/KG |     |
|          | 36-005 | 36-3035 | ñ | ě      | IN         | Chloroform           | 6  |       |     |
|          | 36-005 | 36-3034 | 0 | 6      | IN         | Chloroform           | 0  |       |     |
|          | 36-005 | 36-2024 | ñ | 6      | IN         | Chloroform           | 0  |       |     |
|          | 36-005 | 36-3034 | 0 | e<br>e | iin<br>jki | Chloroform           | 5  |       |     |
|          | 30-003 | 26.2020 | 0 | 0<br>F | 1/N<br>1/N | Chlorofor            | 25 |       |     |
|          | 30-005 | 30-3025 | 0 | b<br>A | IN         |                      | 5  | UG/KG | U   |
|          | 36-005 | 36-3024 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3023 | 0 | 6      | IN         | Chlorotorm           | 6  | UG/KG | U   |
|          | 36-005 | 36-3022 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3021 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3020 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3019 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3018 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |
|          | 36-005 | 36-3018 | 0 | 6      | IN         | Chloroform           | 6  | UG/KG | U   |

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|        |          | •      | -        |         | <b>O</b> 1             | 10     | LICIKO |      |
|--------|----------|--------|----------|---------|------------------------|--------|--------|------|
| 36-005 | 36-3051  | 0      | 6        | IN      | Chloromethane          | 10     | UG/KG  |      |
| 36-005 | 36-3050  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3050  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 00 000 | 00-0000  | 0      | 0        | EN I    | Chieromethane          | 11     | UG/KG  |      |
| 36-005 | 36-3049  | U      | ь        | 41N     | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3048  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3047  | 0      | 6        | IN      | Chloromethane          | 12     | UG/KG  | U    |
| 26 005 | 26 2046  | 0      | ç        | INI     | Chloromothane          | 11     | LIG/KG | 11   |
| 36-005 | 30-3040  | U      | Ð        | IIN     | Chloromethane          | 11     | UG/KG  | 0    |
| 36-005 | 36-3045  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3044  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 00 000 | 00 00 10 | Å      | č        | 151     | Chloromothana          | 10     | UGIKG  | 11   |
| 36-005 | 36-3043  | 0      | ю        | IN      | Chloromethane          | 10     | UG/KG  | U    |
| 36-005 | 36-3042  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3042  | 0      | 6        | IN      | Chloromethane          | 10     | UG/KG  | U    |
| 00-000 | 00-00-42 | ě      | 0        |         | Ohlerenethere          | 10     | Norko  | ŭ    |
| 36-005 | 36-3041  | 0      | 6        | IN      | Chloromethane          | 10     | 0G/KG  | 0    |
| 36-005 | 36-3040  | 0      | 6        | IN      | Chloromethane          | 10     | UG/KG  | U    |
| 36-005 | 36-3030  | 0      | 6        | IN      | Chloromethane          | 10     | UG/KG  | u    |
| 30-003 | 00-0000  |        | 0        |         | Ohlensmethere          | 10     | UOIKO  | ŭ    |
| 36-005 | 36-3038  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3037  | 0      | 6        | IN      | Chloromethane          | 10     | UG/KG  | U    |
| 36-005 | 36-3036  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U U  |
| 00-000 | 00-0000  |        | ě        |         | Ohlessmethane          |        |        | ŭ    |
| 36-005 | 36-3035  | U      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3034  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 26-005 | 36-3034  | 0      | 6        | IN      | Chloromethane          | 10     | UG/KG  | 11   |
| 30-003 | 30-3034  | 0      | 0        | 111     | Oblassmathana          | 50     | UQ/KQ  | ŭ    |
| 36-005 | 36-3026  | 0      | 6        | IN      | Chloromethane          | 50     | UG/KG  | U    |
| 36-005 | 36-3025  | 0      | 6        | IN      | Chloromethane          | 10     | UG/KG  | U    |
| 26.005 | 36-2024  | 0      | 6        | IN      | Chloromethane          | 12     | LIG/KG | 11   |
| 30-005 | 30-3024  | 0      | 0        |         | Olionomethane          | 12     | UQIKQ  |      |
| 36-005 | 36-3023  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3022  | 0      | 6        | IN      | Chloromethane          | 12     | UG/KG  | U    |
| 26 005 | 26 2021  | 0      | Ē        | IN      | Chloromothano          | 10     | LIG/KG |      |
| 30-005 | 30-3021  | U      | 0        | IIN     | Chloromethane          | 12     | Ud/Kd  | 0    |
| 36-005 | 36-3020  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3019  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 26 005 | 20 2010  | õ      | ç        | INI     | Chloromothano          | 11     | UG/KG  |      |
| 30-005 | 30-3010  | U      | o        | IIN     | Chibiomethane          | 11     | UG/KG  | 0    |
| 36-005 | 36-3018  | 0      | 6        | IN      | Chloromethane          | 11     | UG/KG  | U    |
| 36-005 | 36-3051  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 350    | UG/KG  | U    |
| 00 000 | 00 0050  | 0      | č        | 18.1    | Chloropophtholopo[2]   | 260    | UCIKC  |      |
| 36-005 | 36-3050  | U      | D        | IN      | Chioronaphthalene[2-]  | 360    | UG/KG  | U    |
| 36-005 | 36-3050  | 0      | 6        | IN      | Chloronaphthaiene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3049  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 340    | UG/KG  | U    |
| 00 000 | 00 00 10 | 0      | č        | 161     | Chloropophthalana[2]   | 260    | LIC/KC |      |
| 36-005 | 36-3048  | U      | o        | IN      | Chioronaphinalene[2-]  | 360    | UG/KG  | 0    |
| 36-005 | 36-3047  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 390    | UG/KG  | U    |
| 36-005 | 36-3046  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 360    | UG/KG  | U    |
| 00 000 | 00 00 10 | õ      | ĉ        | INI     | Chloronophthelepol2 ]  | 280    |        | ů.   |
| 36-005 | 30-3045  | U      | 0        | lini    | Chioronaphtnaiene[2-]  | 360    | 0G/KG  | 0    |
| 36-005 | 36-3044  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 380    | UG/KG  | U    |
| 36-005 | 36-3043  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 360    | UG/KG  | U    |
| 00 000 | 00 00 10 | 0      | č        | INI     | Chloropophtholopo[2]   | 250    |        |      |
| 30-005 | 36-3042  | U      | o        | IN      | Chioronaphthalene[2-]  | 350    | UG/KG  | 0    |
| 36-005 | 36-3042  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 340    | UG/KG  | U    |
| 36-005 | 36-3041  | 0      | 6        | IN      | Chloronaphthalenel2-1  | 350    | UG/KG  | U    |
| 00 000 | 00 00 10 | ő      | č        | 181     | Chlerenenbthelene(2)   | 050    |        |      |
| 30-005 | 36-3040  | U      | ю        | IN      | Chloronaphtnalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3039  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 340    | UG/KG  | υ    |
| 36-005 | 36-3038  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 360    | UG/KG  | U    |
| 00 000 | 00 0007  | ,<br>, | Č        | 15.1    | Chierenerstthelene [2] | 250    |        |      |
| 30-005 | 30-3037  | 0      | 0        | IIN     | Chioronaphthalene(2-)  | 350    | UG/KG  | 0    |
| 36-005 | 36-3036  | 0      | 6        | IN      | Chioronaphthalene[2-]  | 340    | UG/KG  | U    |
| 36-005 | 36-3035  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 350    | UG/KG  | EI - |
| 00 000 | 00 0000  | ŏ      | õ        | 141     |                        | 000    |        |      |
| 30-005 | 30-3034  | 0      | o        | IIN     | Chioronapritnalene[2-] | 350    | UG/KG  | U    |
| 36-005 | 36-3034  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3026  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 140000 | UG/KG  | U    |
| 26 005 | 26 2026  | õ      | 6        | INI     | Chloropaphthalopol2.1  | 260    |        |      |
| 30-005 | 30-3025  | U      | 0        | IIN IIN |                        | 300    |        | 0    |
| 36-005 | 36-3024  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 400    | UG/KG  | U    |
| 36-005 | 36-3023  | 0      | 6        | IN      | Chloronaphthalenei2-1  | 370    | UG/KG  | U    |
| 26 005 | 26 2022  | ň      | 6        | IN      | Chloronaphthalano[2-]  | 260    | LIG/KG | É I  |
| 30-003 | 30-3022  | 0      | 0        |         |                        | 300    | Udika  | 0    |
| 36-005 | 36-3021  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 400    | UG/KG  | U    |
| 36-005 | 36-3020  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 370    | UG/KG  | U    |
| 26.005 | 26 2010  | ň      | é        | INI     | Chloropaphthalopa[2]   | 270    | LIG/KG | - Ē  |
| 30-003 | 30-3019  | U      | 0        |         | Onioronaprimaiene[2-]  | 5/0    | 00/KG  | 0    |
| 36-005 | 36-3018  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3018  | 0      | 6        | IN      | Chloronaphthalene[2-]  | 370    | UG/KG  | U    |
| 36-005 | 36-2051  | n n    | â        | IN      | Chlorophenol(2-1       | 250    | LIG/KG | ũ    |
| 20-005 | 30-3051  | V      | υ        | UN      | Chilorophenol(2-)      | 350    | UG/KG  | U    |
| 36-005 | 36-3050  | 0      | 6        | IN      | Chlorophenol[2-]       | 360    | UG/KG  | U    |
| 36-005 | 36-3050  | 0      | 6        | IN      | Chlorophenol[2-]       | 350    | UG/KG  | υ    |
| 36.005 | 26 2040  | ň      | 6        | INI     | Chlorophonolia         | 240    | LIG/KC |      |
| 30-005 | 30-3049  | U      | Ö        | IIN     | Chiorophenol[2-]       | 340    | UG/KG  | U    |
| 36-005 | 36-3048  | 0      | 6        | IN      | Chlorophenol[2-]       | 360    | UG/KG  | U    |
| 36-005 | 36-3047  | 0      | 6        | IN      | Chlorophenol/2-1       | 390    | UG/KG  | U    |
| 26 005 | 00 00 40 | č      | č        | 184     | Chlorophone #2 1       | 000    | LIGING |      |
| 30-005 | 30-3040  | U      | D        | IIN I   | Chiorophenol[2-]       | 360    | UG/KG  | U    |
| 36-005 | 36-3045  | 0      | 6        | IN      | Chlorophenol[2-]       | 380    | UG/KG  | U    |
| 36-005 | 36-3044  | ٥      | 6        | IN      | Chlorophenol[2-]       | 380    | UG/KG  | н    |
| 00-005 | 00-0044  |        | <u>,</u> |         |                        | 300    |        |      |
| 36-005 | 36-3043  | υ      | 6        | IN      | Uniorophenol[2-]       | 360    | UG/KG  | U    |
| 36-005 | 36-3042  | 0      | 6        | IN      | Chlorophenol[2-]       | 350    | UG/KG  | U    |
| 36-005 | 36-2042  | n      | 6        | IN      | Chlorophenol(2-1       | 340    | UG/KG  | ū    |
| 00-000 | 00-0042  | 0      | 0        | 11.1    | Oniorophenol[2*]       | 340    | Juna   | 0    |

|      | 00.005                                                                       | 00.0041                                                                                         | 0                               | ~                          | INI                              | Oblevenhenel[2]                                                                                                                                 | 250                         |                                                    |                                 |
|------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------|----------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------|---------------------------------|
|      | 36-005                                                                       | 36-3041                                                                                         | U                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 350                         | UG/KG                                              | 0                               |
|      | 36-005                                                                       | 36-3040                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 350                         | UG/KG                                              | U                               |
| N    | 36-005                                                                       | 36-3039                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 340                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3038                                                                                         | 0                               | 6                          | IN                               | Chlorophenoli2-1                                                                                                                                | 360                         | UG/KG                                              | U                               |
|      | 26.005                                                                       | 26 2027                                                                                         | 0                               | °,                         | INI                              | Chierenhonol(2)                                                                                                                                 | 350                         | UG/KG                                              |                                 |
|      | 30-005                                                                       | 30-3037                                                                                         | 0                               | 0                          |                                  | Chlorophenoi(2-)                                                                                                                                | 350                         | Uand                                               |                                 |
|      | 36-005                                                                       | 36-3036                                                                                         | 0                               | 6                          | IN                               | Chiorophenol[2-]                                                                                                                                | 340                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3035                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 350                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3034                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 350                         | UG/KG                                              | U                               |
|      | 26.005                                                                       | 26 2024                                                                                         | õ                               | ě                          | 151                              | Chlorophonol[2]                                                                                                                                 | 250                         | UG/KG                                              |                                 |
|      | 30-005                                                                       | 30-3034                                                                                         | 0                               | 0                          |                                  | Chlorophenol(2-)                                                                                                                                | 350                         |                                                    |                                 |
|      | 36-005                                                                       | 36-3026                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 14000                       | ) UG/KG                                            | U                               |
|      | 36-005                                                                       | 36-3025                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 360                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3024                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 400                         | UG/KG                                              | U                               |
|      | 26.005                                                                       | 26 2021                                                                                         | Ő                               | e<br>e                     | IN I                             | Chlorophonol(2)                                                                                                                                 | 370                         | UG/KG                                              | ŭ                               |
|      | 30-005                                                                       | 30-3023                                                                                         | 0                               | 0                          | 111                              | Chlorophenol[2-]                                                                                                                                | 370                         | UG/KG                                              | 0                               |
|      | 36-005                                                                       | 36-3022                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 360                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3021                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 400                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3020                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 370                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3010                                                                                         | Ō                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 370                         | UG/KG                                              | Ŭ.                              |
|      | 30-005                                                                       | 00-0019                                                                                         | 0                               | Š                          |                                  | Chlorophenol(2-)                                                                                                                                | 370                         | UC/KC                                              | ŭ                               |
|      | 36-005                                                                       | 36-3018                                                                                         | 0                               | 6                          | IN                               | Chiorophenoi[2-]                                                                                                                                | 350                         | UG/KG                                              | 0                               |
|      | 36-005                                                                       | 36-3018                                                                                         | 0                               | 6                          | IN                               | Chlorophenol[2-]                                                                                                                                | 370                         | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3051                                                                                         | 0                               | 6                          | IN                               | Chlorophenvl-phenvl[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3050                                                                                         | 0                               | 6                          | IN                               | Chlorophenyk-phenyl[4-]                                                                                                                         | Ether 360                   | LIG/KG                                             | ū                               |
|      | 00-005                                                                       | 00-0000                                                                                         | 0                               | ő                          |                                  | Chicrophenyi-phenyi[4-]                                                                                                                         | Ether 250                   | UC/KC                                              |                                 |
|      | 36-005                                                                       | 36-3050                                                                                         | U                               | 6                          | IN                               | Chlorophenyi-phenyi[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | 0                               |
|      | 36-005                                                                       | 36-3049                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 340                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3048                                                                                         | 0                               | 6                          | IN                               | Chlorophenvl-phenvl[4-]                                                                                                                         | Ether 360                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3047                                                                                         | Ō                               | 6                          | IN                               | Chiorophenyl-phenyl[4-]                                                                                                                         | Ether 390                   | UG/KG                                              | t I                             |
|      | 30-005                                                                       | 30-3047                                                                                         | 0                               | 0                          | 11.1                             | Ohlorophenyl-phenyl(4-)                                                                                                                         | Ether 000                   | UCIKO                                              |                                 |
|      | 36-005                                                                       | 36-3046                                                                                         | 0                               | 6                          | IN                               | Chiorophenyi-phenyi[4-]                                                                                                                         | Ether 360                   | UG/KG                                              | 0                               |
|      | 36-005                                                                       | 36-3045                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 380                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3044                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 380                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3043                                                                                         | 0                               | 6                          | IN                               | Chlorophenvi-phenvi[4-]                                                                                                                         | Ether 360                   | UG/KG                                              | E                               |
|      | 00 000                                                                       | 26 2040                                                                                         | õ                               | ŝ                          | INI                              | Chlorophonyl phonyl(4.)                                                                                                                         | Ether 350                   | HG/KG                                              |                                 |
|      | 30-005                                                                       | 30-3042                                                                                         | 0                               | 0                          | IN                               | Chiorophenyi-phenyi[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3042                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 340                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3041                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | υ                               |
|      | 36-005                                                                       | 36-3040                                                                                         | 0                               | 6                          | IN                               | Chlorophenvl-phenvl[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | U                               |
|      | 26.005                                                                       | 36-2020                                                                                         | Ō                               | Ē                          | INI                              | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 340                   | LIG/KG                                             |                                 |
|      | 30-005                                                                       | 30-3039                                                                                         | 0                               | 0                          | 11.1                             | Ohlorophenyl-phenyl[4-]                                                                                                                         | Ether 000                   | UQ/KQ                                              |                                 |
|      | 36-005                                                                       | 36-3038                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 360                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3037                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3036                                                                                         | 0                               | 6                          | IN                               | Chlorophenvl-phenvl[4-]                                                                                                                         | Ether 340                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36.3035                                                                                         | Ō                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | . ŭ                             |
| GAL. | 30-005                                                                       | 30-3035                                                                                         | 0                               | 0                          |                                  | Onlorophenyi-phenyi[4-]                                                                                                                         | Ciller 350                  | Uarka                                              |                                 |
|      | 36-005                                                                       | 36-3034                                                                                         | 0                               | 6                          | IN                               | Chiorophenyi-phenyi[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3034                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3026                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 14000                 | D UG/KG                                            | U                               |
|      | 36-005                                                                       | 36-3025                                                                                         | Ó                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 360                   | UG/KG                                              | 11                              |
|      | 00-005                                                                       | 00-0020                                                                                         | õ                               | č                          |                                  | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 300                   |                                                    | ŭ                               |
|      | 30-005                                                                       | 30-3024                                                                                         | U                               | 0                          | IIN                              | Chiorophenyi-phenyi[4-]                                                                                                                         | Ether 400                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3023                                                                                         | 0                               | 6                          | IN                               | Chiorophenyl-phenyl[4-]                                                                                                                         | Ether 370                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3022                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 360                   | UG/KG                                              | υ                               |
|      | 36-005                                                                       | 36-3021                                                                                         | 0                               | 6                          | IN                               | Chiorophenvi-phenvi[4-]                                                                                                                         | Ether 400                   | LIG/KG                                             |                                 |
|      | 26 005                                                                       | 26 2020                                                                                         | õ                               | é                          | INI                              | Chierophenyl phenyl[1]                                                                                                                          | Ethor 270                   | UG/KG                                              |                                 |
|      | 36-005                                                                       | 36-3020                                                                                         | 0                               | ю                          | 11N                              | Chiorophenyi-phenyi[4-]                                                                                                                         | Ether 370                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3019                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 370                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3018                                                                                         | 0                               | 6                          | IN                               | Chlorophenyl-phenyl[4-]                                                                                                                         | Ether 350                   | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3018                                                                                         | 0                               | 6                          | IN                               | Chlorophenvi-phenvi[4-]                                                                                                                         | Ether 370                   | UG/KG                                              | 11                              |
|      | 00 000                                                                       | 00 0051                                                                                         | õ                               | č                          | INI                              | Chlorotoluono[2]                                                                                                                                | Eulo: 010                   | UCIKO                                              |                                 |
|      | 30-005                                                                       | 30-3051                                                                                         | 0                               | 0                          | lin                              | Chiorotoluene[2-]                                                                                                                               | 5                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3050                                                                                         | 0                               | 6                          | IN                               | Chiorotoluene[2-]                                                                                                                               | 6                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3050                                                                                         | 0                               | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 6                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3049                                                                                         | 0                               | 6                          | IN                               | Chlorotoluenel2-1                                                                                                                               | 6                           | UG/KG                                              | U                               |
|      | 26 005                                                                       | 26 2048                                                                                         | 0                               | ĥ                          | IN                               | Chlorotoluono[2-]                                                                                                                               | 6                           | LIG/KG                                             |                                 |
|      | 30-005                                                                       | 30-3040                                                                                         | 0                               | 0                          | iin<br>is i                      |                                                                                                                                                 | 6                           |                                                    |                                 |
|      | 36-005                                                                       | 36-3047                                                                                         | 0                               | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 6                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3046                                                                                         | 0                               | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 6                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3045                                                                                         | 0                               | 6                          | IN                               | Chlorotoluenel2-1                                                                                                                               | 6                           | UG/KG                                              | <b>U</b> .I                     |
|      | 26 005                                                                       | 26 2044                                                                                         | õ                               | Ē                          | INI                              | Chloreteluone(2.)                                                                                                                               | 6                           | UCIKO                                              |                                 |
|      | 30-005                                                                       | 30-3044                                                                                         | U                               | 0                          | HN I                             | Chiorototuene(2-)                                                                                                                               | 0                           | UG/KG                                              | 00                              |
|      | 36-005                                                                       | 36-3043                                                                                         | 0                               | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 5                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3042                                                                                         | 0                               | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 6                           | UG/KG                                              | UJ                              |
|      | 36-005                                                                       | 36-3042                                                                                         | n                               | 6                          | IN                               | Chlorotoluene <sup>[2-1]</sup>                                                                                                                  | 5                           | UG/KG                                              | 0.1                             |
|      | 26 000                                                                       | 26 2041                                                                                         | õ                               | ĉ                          | IN                               | ChlorotoluonolO 1                                                                                                                               | 5                           | LICIKO                                             |                                 |
|      | 30-005                                                                       | 30-3041                                                                                         | U                               | 0                          | IIN                              | Chiorotoluene[2-]                                                                                                                               | 5                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3040                                                                                         | 0                               | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 5                           | UG/KG                                              | U                               |
|      | 36-005                                                                       | 36-3039                                                                                         | 0                               | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 5                           | UG/KG                                              | υ                               |
|      | 00-000                                                                       |                                                                                                 |                                 | 6                          | IN                               | Chlorotoluene <sup>[2]</sup>                                                                                                                    | Ā                           | UG/KG                                              | Ű.                              |
|      | 36-005                                                                       | 36-3038                                                                                         | A .                             |                            | 1111                             | Childrene[2*]                                                                                                                                   | 0                           | UG/NG                                              | J                               |
|      | 36-005                                                                       | 36-3038                                                                                         | 0                               | Š                          | 15.1                             | Ohia-4-1                                                                                                                                        | -                           | 1104/0                                             | 1.2                             |
|      | 36-005<br>36-005                                                             | 36-3038<br>36-3037                                                                              | 0<br>0                          | 6                          | IN                               | Chlorotoluene[2-]                                                                                                                               | 5                           | UG/KG                                              | U                               |
|      | 36-005<br>36-005<br>36-005                                                   | 36-3038<br>36-3037<br>36-3036                                                                   | 0<br>0<br>0                     | 6<br>6                     | IN<br>IN                         | Chlorotoluene[2-]<br>Chlorotoluene[2-]                                                                                                          | 5<br>6                      | UG/KG<br>UG/KG                                     | U<br>U                          |
|      | 36-005<br>36-005<br>36-005<br>36-005                                         | 36-3038<br>36-3037<br>36-3036<br>36-3035                                                        | 0<br>0<br>0<br>0                | 6<br>6<br>6                | IN<br>IN<br>IN                   | Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]                                                                                     | 5<br>6<br>6                 | UG/KG<br>UG/KG<br>UG/KG                            | ບ<br>ບ<br>ບ                     |
|      | 36-005<br>36-005<br>36-005<br>36-005<br>36-005                               | 36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034                                             | 0<br>0<br>0<br>0                | 6<br>6<br>6                | IN<br>IN<br>IN                   | Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]                                                                | 5<br>6<br>6                 | UG/KG<br>UG/KG<br>UG/KG                            | U<br>U<br>U                     |
|      | 36-005<br>36-005<br>36-005<br>36-005<br>36-005                               | 36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034                                             |                                 | 6<br>6<br>6                | IN<br>IN<br>IN                   | Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]                                                                | 5<br>6<br>6<br>-            | UG/KG<br>UG/KG<br>UG/KG                            | ບ<br>ບ<br>ບ<br>ບ                |
|      | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                     | 36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034                                  | 0<br>0<br>0<br>0<br>0           | 6<br>6<br>6<br>6           | IN<br>IN<br>IN<br>IN             | Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]                                           | 5<br>6<br>6<br>5            | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          | U<br>U<br>U<br>U                |
|      | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005           | 36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034<br>36-3026                       | 0<br>0<br>0<br>0<br>0<br>0      | 6<br>6<br>6<br>6<br>6      | IN<br>IN<br>IN<br>IN<br>IN       | Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]                      | 5<br>6<br>6<br>5<br>25      | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG | U<br>U<br>U<br>U<br>U           |
|      | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005           | 36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034<br>36-3026<br>36-3025            | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 6<br>6<br>6<br>6<br>6<br>6 | IN<br>IN<br>IN<br>IN<br>IN<br>IN | Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-] | 5<br>6<br>6<br>5<br>25<br>5 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG | U<br>U<br>U<br>U<br>U<br>U<br>U |
|      | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005 | 36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034<br>36-3026<br>36-3025<br>36-3024 |                                 | 6<br>6<br>6<br>6<br>6<br>6 | IN<br>IN<br>IN<br>IN<br>IN<br>IN | Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-]<br>Chlorotoluene[2-] | 5<br>6<br>6<br>5<br>25<br>5 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG |                                 |

| 00.005 | 00.0000 |        | <u>^</u> | 16.1       | Chlorotoluopol(2, ) | 6        | UG/KG  | UJ  |
|--------|---------|--------|----------|------------|---------------------|----------|--------|-----|
| 36-005 | 36-3023 | 0      | 6        | IN         | Chlorotoldene[2-]   | °,       | LIG/KG | ш   |
| 36-005 | 36-3022 | 0      | 6        | IN         | Chlorotoluene[2-]   | 0        | UG/KG  |     |
| 36-005 | 36-3021 | 0      | 6        | IN         | Chlorotoluene[2-]   | 6        | UG/KG  | 05  |
| 36-005 | 36-3020 | 0      | 6        | IN         | Chlorotoluene[2-]   | 6        | UG/KG  | UJ  |
| 36-005 | 36-3019 | 0      | 6        | IN         | Chlorotoluene[2-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3018 | 0      | 6        | IN         | Chlorotoluene[2-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3018 | 0<br>0 | 6        | IN         | Chlorotoluene[2-]   | 6        | UG/KG  | υ   |
| 36-005 | 26.2051 | õ      | 6        | 14         | Chlorotoluono[4]    | 5        | LIG/KG | ŭ   |
| 30-005 | 20-3051 | 0      | 0        | NN ANA     | Chlorotoluene[4-]   | 5        |        |     |
| 36-005 | 36-3050 | 0      | D<br>O   | IN         | Chlorotoluene[4-]   | 6        |        | 0   |
| 36-005 | 36-3050 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3049 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3048 | 0      | 6        | IN         | Chlorotoiuene[4-]   | 6        | UG/KG  | UJ  |
| 36-005 | 36-3047 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | υ   |
| 36-005 | 36-3046 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | υ   |
| 36-005 | 36-3045 | 0      | 6        | IN         | Chlorotoluene[4-]   | Ē        | UG/KG  | ц.  |
| 26-005 | 36-3044 | õ      | 6        | INI        | Chlorotoluene[4-]   | 6        | UG/KG  | 111 |
| 30-005 | 00-0049 | 0      | 0        | IN IN      |                     | 6        |        | 00  |
| 36-005 | 36-3043 | 0      | 6        | IN         | Chibrotoluene[4-]   | 5        | UG/KG  |     |
| 36-005 | 36-3042 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | UJ  |
| 36-005 | 36-3042 | 0      | 6        | IN         | Chlorotoluene[4-]   | 5        | UG/KG  | UJ  |
| 36-005 | 36-3041 | 0      | 6        | IN         | Chlorotoluene[4-]   | 5        | UG/KG  | U   |
| 36-005 | 36-3040 | 0      | 6        | IN         | Chlorotoluene[4-]   | 5        | UG/KG  | U   |
| 36-005 | 36-3039 | 0      | 6        | IN         | Chlorotoluene[4-]   | 5        | UG/KG  | U   |
| 26 005 | 26 2028 | õ      | Ê        | INI        | Chlorotoluene(4-)   | Ê        | LIG/KG |     |
| 30-005 | 30-3038 | 0      | 0        |            | Chlorotoluene[4-]   | 5        | UG/KG  |     |
| 36-005 | 36-3037 | U      | 6        | IN         | Chlorotoluene[4-]   | 5        |        | 0   |
| 36-005 | 36-3036 | 0      | 6        | IN         | Chlorotoluenė[4-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3035 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3034 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3034 | 0      | 6        | IN         | Chlorotoluene[4-]   | 5        | UG/KG  | U   |
| 36-005 | 36-3026 | Ô      | 6        | IN         | Chlorotoluene[4-]   | 25       | UG/KG  | Ū.  |
| 30-005 | 30-3020 | 0      | 6        | HN HN      | Chlorotolucno[4]    | 5        | UG/KG  | ŭ   |
| 36-005 | 36-3025 | 0      | 0        | HN .       | Chlorotoluene[4-]   | 9        |        |     |
| 36-005 | 36-3024 | 0      | 6        | IN         | Chiorotoluene[4-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3023 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | 00  |
| 36-005 | 36-3022 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | U   |
| 36-005 | 36-3021 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | UJ  |
| 36-005 | 36-3020 | 0      | 6        | IN         | Chlorotojuene[4-]   | 6        | UG/KG  | UJ  |
| 36-005 | 26 2010 | õ      | 6        | INI        | Chlorotoluene[4-]   | ŝ        | LIG/KG | 11  |
| 30-005 | 30-3019 | 0      | 0        | IIN<br>INI | Chlorotoluene[4]    | 0        | UC/KC  | ň   |
| 36-005 | 36-3018 | U      | 6        | IN         | Chlorotoluene[4-]   | 6        |        |     |
| 36-005 | 36-3018 | 0      | 6        | IN         | Chlorotoluene[4-]   | 6        | UG/KG  | U   |
| 36-005 | NA      |        |          |            | Chromium, Total     | 11.1     | MG/KG  | J   |
| 36-005 | 36-3051 | 0      | 6        | IN         | Chromium, Total     | 1.7      | MG/KG  | UJ  |
| 36-005 | 36-3050 | 0      | 6        | IN         | Chromium, Total     | 6        | MG/KG  | J   |
| 36-005 | 36-3050 | Õ      | 6        | IN         | Chromium Total      | 6.5      | MG/KG  |     |
| 30-005 | 30-3030 | 0      | 6        | IN         | Chromium, Total     | 1.0      | MG/KG  |     |
| 30-005 | 30-3049 | 0      | 0        |            | Chromium, Total     | 1.9      | Marka  | 05  |
| 36-005 | 36-3048 | 0      | 6        | IN         | Chromium, I otai    | 9.3      | MG/KG  | J   |
| 36-005 | 36-3047 | 0      | 6        | IN         | Chromium, Total     | 5.8      | MG/KG  | J   |
| 36-005 | 36-3046 | 0      | 6        | IN         | Chromium, Total     | 3.1      | MG/KG  | J   |
| 36-005 | 36-3045 | 0      | 6        | IN         | Chromium, Total     | 8.6      | MG/KG  | J   |
| 36-005 | 36-3044 | 0      | 6        | IN         | Chromium, Total     | 6.4      | MG/KG  | J   |
| 36-005 | 36-3043 | õ      | 6        | iN         | Chromium Total      | 27       | MG/KG  |     |
| 30-005 | 30-3043 | 0      | 0        | 111        | Chromium, Total     | 2.7      | Marka  | 5   |
| 36-005 | 36-3042 | U      | 6        | IN         | Chromium, Total     | 3.0      | MG/KG  | J   |
| 36-005 | 36-3042 | 0      | 6        | IN         | Chromium, Total     | 4.9      | MG/KG  | J   |
| 36-005 | 36-3041 | 0      | 6        | IN         | Chromium, Total     | 6.5      | MG/KG  |     |
| 36-005 | 36-3040 | 0      | 6        | IN         | Chromium, Total     | 5.3      | MG/KG  |     |
| 36-005 | 36-3039 | 0      | 6        | IN         | Chromium, Total     | 4.5      | MG/KG  |     |
| 36-005 | 36-3038 | Ó      | 6        | IN         | Chromium Total      | 7.5      | MG/KG  |     |
| 36.005 | 26 2027 | õ      | e<br>e   | INI        | Chromium, Total     | 9.3      | MG/KG  |     |
| 30-005 | 30-3037 | 0      | 0        | IIN<br>INI | Chromium, Total     | 0.5      | Marka  |     |
| 36-005 | 36-3036 | U      | 6        | IN         | Chromium, Total     | 8.6      | MG/KG  |     |
| 36-005 | 36-3035 | 0      | 6        | IN         | Chromium, Total     | 9.9      | MG/KG  |     |
| 36-005 | 36-3034 | 0      | 6        | IN         | Chromium, Total     | 6        | MG/KG  |     |
| 36-005 | 36-3034 | 0      | 6        | IN         | Chromium, Total     | 7        | MG/KG  |     |
| 36-005 | 36-3026 | 0      | 6        | IN         | Chromium, Total     | 5.8      | MG/KG  | J   |
| 36-005 | 36-3025 | õ      | 6        | IN         | Chromium Total      | 29       | MG/KG  |     |
| 30-005 | 00-0020 | 0      | ç        | 111        | Chromium, Total     | E.5      | MOKO   | , i |
| 30-005 | 30-3024 | 0      | o<br>c   | UN .       | Observium, Fotal    | 5.4      | WG/KG  | J   |
| 36-005 | 36-3023 | 0      | 6        | IN         | Chromium, Total     | 5.3      | MG/KG  | J   |
| 36-005 | 36-3022 | 0      | 6        | IN         | Chromium, Total     | 2        | MG/KG  | IJ  |
| 36-005 | 36-3021 | 0      | 6        | IN         | Chromium, Total     | 4.8      | MG/KG  | J   |
| 36-005 | 36-3020 | 0      | 6        | IN         | Chromium, Total     | 4.2      | MG/KG  | L   |
| 36-005 | 36-3010 | 0      | 6        | IN         | Chromium Total      | 3.8      | MG/KG  | .i  |
| 36,005 | 26 2019 | Ň      | 6        | INI        | Chromium Total      | 5.5<br>A | MG/KG  |     |
| 30-005 | 30-3018 | U      | 0        | IN         |                     | 4        |        | J   |
| 36-005 | 36-3018 | U      | 6        | IN         | Chromium, Total     | 2.8      | MG/KG  | J   |
| 36-005 | 36-3051 | 0      | 6        | IN         | Chrysene            | 350      | UG/KG  | U   |
| 36-005 | 36-3050 | 0      | 6        | IN         | Chrysene            | 360      | UG/KG  | U   |
| 36-005 | 36-3050 | 0      | 6        | IN         | Chrysene            | 350      | UG/KG  | U   |
| 36-005 | 36-3049 | 0      | 6        | IN         | Chrysene            | 340      | UG/KG  | Ū   |
|        |         | -      | -        | · · · ·    |                     |          |        | -   |

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| 36-005 | 36-3048 | 0   | 6      | IN    | Chrysene  | 360    | UG/KG  | ш   |
|--------|---------|-----|--------|-------|-----------|--------|--------|-----|
| 36.005 | 26 2047 | 0   | é      | IN    | Christene | 300    |        |     |
| 36-005 | 30-3047 | 0   | 0      | IIN   | Chrysene  | 390    | UG/KG  | 0   |
| 36-005 | 36-3046 | 0   | 6      | IN    | Chrysene  | 360    | UG/KG  | U   |
| 36-005 | 36-3045 | 0   | 6      | IN    | Chrysene  | 380    | UG/KG  | U   |
| 36-005 | 36-3044 | 0   | 6      | IN    | Chrysene  | 380    | UG/KG  | υ   |
| 36-005 | 36-3043 | Ō   | 6      | IN    | Chrysene  | 360    | UG/KG  | 11  |
| 26.005 | 26 2040 | 0   | é      | 111   | Character | 300    | UC/KC  |     |
| 36-005 | 30-3042 | 0   | 6      | IN    | Unrysene  | 350    | UG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN    | Chrysene  | 340    | UG/KG  | U   |
| 36-005 | 36-3041 | 0   | 6      | IN    | Chrysene  | 350    | UG/KG  | U   |
| 36-005 | 36-3040 | n i | 6      | IN    | Chrysene  | 350    | UG/KG  | 11  |
| 26 005 | 00 0040 | 0   | č      | 114   | Ohrysene  | 240    | UCIKO  |     |
| 30-005 | 36-3039 | 0   | ь      | IIN   | Chrysene  | 340    | UG/KG  | U   |
| 36-005 | 36-3038 | 0   | 6      | IN    | Chrysene  | 360    | UG/KG  | U   |
| 36-005 | 36-3037 | 0   | 6      | IN    | Chrysene  | 350    | UG/KG  | U   |
| 36-005 | 36-3036 | 0   | 6      | IN    | Chrysene  | 340    | UG/KG  | U   |
| 36-005 | 36-3035 | Ō   | 6      | IN    | Chrysene  | 350    | LIG/KG | ū   |
| 30-005 | 00-0000 | 0   | 0      | ir v  | Chrysene  | 350    |        |     |
| 36-005 | 36-3034 | U   | 0      | IIN   | Chrysene  | 350    | UG/KG  | U   |
| 36-005 | 36-3034 | 0   | 6      | IN    | Chrysene  | 350    | UG/KG  | U   |
| 36-005 | 36-3026 | 0   | 6      | IN    | Chrysene  | 140000 | UG/KG  | U   |
| 36-005 | 36-3025 | 0   | 6      | IN    | Chrysene  | 360    | UG/KG  | U   |
| 36-005 | 36-3024 | 0   | 6      | INI   | Chryseno  | 400    |        | ŭ   |
| 30-005 | 00-0024 | 0   | 0      |       | Ohrysene  | 400    | UG/KG  |     |
| 36-005 | 36-3023 | 0   | 6      | IN    | Chrysene  | 370    | UG/KG  | U   |
| 36-005 | 36-3022 | 0   | 6      | IN    | Chrysene  | 360    | UG/KG  | υ   |
| 36-005 | 36-3021 | 0   | 6      | IN    | Chrysene  | 400    | UG/KG  | U   |
| 36-005 | 36-3020 | 0   | 6      | IN    | Chrysene  | - 370  | UG/KG  | Ū.  |
| 36-005 | 36-3010 | 0   | 6      | IN    | Chrysene  | 370    |        |     |
| 30-005 | 30-3019 | 0   | 0      | 111   | Chrysene  | 370    | UG/KG  | 0   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Chrysene  | 350    | UG/KG  | U   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Chrysene  | 370    | UG/KG  | υ   |
| 36-005 | NA      |     |        |       | Cobalt    | 3.1    | MG/KG  | U   |
| 36-005 | 36-3051 | 0   | 6      | IN    | Cobalt    | 19     | MG/KG  | Ū.  |
| 26,005 | 26 2050 | õ   | e      | INI   | Cobalt    | 7      | Marka  |     |
| 36-005 | 36-3050 | 0   | 0      | 11N   | Cobait    | · · ·  | MG/KG  | U   |
| 36-005 | 36-3050 | 0   | 6      | IN    | Cobalt    | 5.9    | MG/KG  | U   |
| 36-005 | 36-3049 | 0   | 6      | IN    | Cobalt    | 1.7    | MG/KG  | U   |
| 36-005 | 36-3048 | 0   | 6      | IN    | Cobalt    | 6.9    | MG/KG  | υ   |
| 36-005 | 36-3047 | 0   | 6      | IN    | Cobalt    | 4 4    | MG/KG  | ÷.  |
| 26 005 | 36 2046 | õ   | ē      | INI   | Cabalt    |        | MOKO   |     |
| 30-005 | 30-3040 | 0   | 0      | IIN I | Cobait    | 2      | MG/KG  | 0   |
| 36-005 | 36-3045 | 0   | 6      | IN    | Cobalt    | 6.7    | MG/KG  | U   |
| 36-005 | 36-3044 | 0   | 6      | IN    | Cobalt    | 5      | MG/KG  | U   |
| 36-005 | 36-3043 | 0   | 6      | IN    | Cobalt    | 2.3    | MG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN    | Cobalt    | 3.4    | MG/KG  | H   |
| 26 005 | 26 2042 | 0   | é      | 11.5  | Cobalt    | 0.7    | Marka  |     |
| 36-005 | 30-3042 | 0   | 0      | IN    | Coban     | 3.7    | MG/KG  | U   |
| 36-005 | 36-3041 | 0   | 6      | IN    | Cobalt    | 3.5    | MG/KG  | U   |
| 36-005 | 36-3040 | 0   | 6      | IN    | Cobalt    | 2.7    | MG/KG  | U   |
| 36-005 | 36-3039 | 0   | 6      | IN    | Cobalt    | 2.2    | MG/KG  | U   |
| 36-005 | 36-3038 | 0   | 6      | IN    | Cobalt    | 3.4    | MG/KG  | ŭ   |
| 36 005 | 26 2027 | õ   | e<br>e | 16.1  | Cobalt    | 0.4    | Marka  | 0   |
| 30-005 | 36-3037 | 0   | D      | IN    | Cobait    | 6.1    | MG/KG  |     |
| 36-005 | 36-3036 | 0   | 6      | IN    | Cobalt    | 4.1    | MG/KG  | U   |
| 36-005 | 36-3035 | 0   | 6      | IN    | Cobalt    | 4.7    | MG/KG  | U   |
| 36-005 | 36-3034 | 0   | 6      | IN    | Cobalt    | 4.5    | MG/KG  | 11  |
| 26 005 | 26 2024 | õ   | é      | INI   | Cebalt    | 4.0    | Marka  |     |
| 30-005 | 30-3034 | 0   | 0      | IN    | Cobait    | 4.1    | MG/KG  | U   |
| 36-005 | 36-3026 | 0   | 6      | IN    | Cobalt    | 4.3    | MG/KG  | U   |
| 36-005 | 36-3025 | 0   | 6      | IN    | Cobalt    | 2.8    | MG/KG  | U   |
| 36-005 | 36-3024 | 0   | 6      | IN    | Cobalt    | 4.9    | MG/KG  | υ   |
| 36-005 | 36-3023 | 0   | 6      | IN    | Cobalt    | 4.8    | MG/KG  | - ŭ |
| 36 005 | 36-2020 | 0   | 6      | INI   | Cobalt    | 4.0    | Marka  |     |
| 30-005 | 00-0022 | 0   | Û      | 1151  | Cobait    | 3      | MG/KG  | U   |
| 36-005 | 36-3021 | 0   | 6      | IN    | Cobalt    | 4.2    | MG/KG  | U   |
| 36-005 | 36-3020 | 0   | 6      | IN    | Cobalt    | 4.2    | MG/KG  | U   |
| 36-005 | 36-3019 | 0   | 6      | IN    | Cobalt    | 42     | MG/KG  | Ū.  |
| 36-005 | 36-3018 | Ō   | ē      | IN    | Cobalt    | E      | MG/KG  | ŭ   |
| 00-005 | 00-0010 | 0   | ě      | 114   | Coball    | 5      | MG/KG  | U   |
| 36-005 | 36-3018 | 0   | 6      | IN    | Cobalt    | 3.2    | MG/KG  | U   |
| 36-005 | NA      |     |        |       | Copper    | 651    | MG/KG  |     |
| 36-005 | 36-3051 | 0   | 6      | IN    | Copper    | 2.7    | MG/KG  | U   |
| 36-005 | 36-3050 | 0   | 6      | IN    | Copper    | 63     | MG/KG  | -   |
| 36-005 | 36-3050 | õ   | e      | IN    | Copper    | 0.0    | MORG   |     |
| 30-005 | 30-3050 | 0   | U<br>O | 119   | Copper    | 6.2    | MG/KG  |     |
| 36-005 | 36-3049 | 0   | 6      | IN    | Copper    | 2.1    | MG/KG  | U   |
| 36-005 | 36-3048 | 0   | 6      | IN    | Copper    | 7.3    | MG/KG  |     |
| 36-005 | 36-3047 | 0   | 6      | IN    | Copper    | 56     | MG/KG  |     |
| 36,005 | 36.3046 | Ō   | Ê      | IN    | Copper    | 0.0    | Morre  |     |
| 00-005 | 00-0040 | ~   | 0      | 11.16 | Cohhei    | 3.5    | MG/KG  | U   |
| 36-005 | 36-3045 | U   | 6      | IN    | Copper    | 7.9    | MG/KG  |     |
| 36-005 | 36-3044 | 0   | 6      | IN    | Copper    | 4.7    | MG/KG  | U   |
| 36-005 | 36-3043 | 0   | 6      | IN    | Copper    | 4      | MG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN    | Copper    | 4.5    | MG/KG  |     |
| 26 005 | 26 2040 | č   | ç      | IN I  | Copper    | 4.0    |        |     |
| 30-005 | 30-3042 | 0   | 0      | IN    | Copper    | 4.5    | MG/KG  | U   |
| 36-005 | 36-3041 | 0   | 6      | IN    | Copper    | 4.6    | MG/KG  |     |
| 36-005 | 36-3040 | 0   | 6      | IN    | Copper    | 6      | MG/KG  |     |

W. 4. . . .

| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3039                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 4.3                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3038                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 5.1                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 26 005                                                                                                                                                                                                                                                                                                                                                                                                             | 26 2027                                                                                                                                                                                                                  | õ                                       | é                                                                                      | INI                                            | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 62                                                                                                                                                                  | MG/KG                                                                                                                                                 |                            |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3037                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | 111                                            | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 4.5                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3036                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 4.5                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3035                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 7.5                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3034                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 5.9                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3034                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 5.9                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 26 2000                                                                                                                                                                                                                  | 0                                       | e e                                                                                    | INI                                            | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 53                                                                                                                                                                  | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3026                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Oopper                                                                                                                                                                                                                                                                                                                                                                                       | 0.0                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3025                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 3.9                                                                                                                                                                 | Marka                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3024                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 8.6                                                                                                                                                                 | MG/KG                                                                                                                                                 | J                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3023                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 7.1                                                                                                                                                                 | MG/KG                                                                                                                                                 | J                          |
| 26 005                                                                                                                                                                                                                                                                                                                                                                                                             | 26 2020                                                                                                                                                                                                                  | 0                                       | ě                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 5.3                                                                                                                                                                 | MG/KG                                                                                                                                                 | UJ                         |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3022                                                                                                                                                                                                                  | 0                                       | 0                                                                                      |                                                | Capper                                                                                                                                                                                                                                                                                                                                                                                       | 83                                                                                                                                                                  | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3021                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 0.5                                                                                                                                                                 | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3020                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 11.7                                                                                                                                                                | MG/KG                                                                                                                                                 | J                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3019                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 5.5                                                                                                                                                                 | MG/KG                                                                                                                                                 | J                          |
| 36 005                                                                                                                                                                                                                                                                                                                                                                                                             | 26 2019                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Conner                                                                                                                                                                                                                                                                                                                                                                                       | 6.8                                                                                                                                                                 | MG/KG                                                                                                                                                 | J                          |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3018                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | 11                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 53                                                                                                                                                                  | MG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3018                                                                                                                                                                                                                  | 0                                       | ь                                                                                      | IN                                             | Copper                                                                                                                                                                                                                                                                                                                                                                                       | 5.5                                                                                                                                                                 |                                                                                                                                                       |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3051                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3050                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 26-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3050                                                                                                                                                                                                                  | ñ                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | υ                          |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 00-0000                                                                                                                                                                                                                  | õ                                       | č                                                                                      | INI                                            | Dibonz(a b)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 340                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3049                                                                                                                                                                                                                  | 0                                       | D                                                                                      | IIN                                            | Dibenz(a,i)antinacene                                                                                                                                                                                                                                                                                                                                                                        | 000                                                                                                                                                                 | UC/KG                                                                                                                                                 | ŭ                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3048                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | 0                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3047                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 390                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3046                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | υ                          |
| 26 005                                                                                                                                                                                                                                                                                                                                                                                                             | 26 2046                                                                                                                                                                                                                  | 0                                       | Ē                                                                                      | IN                                             | Dibenz(a h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 380                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3045                                                                                                                                                                                                                  | 0                                       | 0                                                                                      |                                                |                                                                                                                                                                                                                                                                                                                                                                                              | 380                                                                                                                                                                 | UG/KG                                                                                                                                                 | , ŭ                        |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3044                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,n)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3043                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3042                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 00-005                                                                                                                                                                                                                                                                                                                                                                                                             | 00 0042                                                                                                                                                                                                                  | 0                                       | e                                                                                      | IN I                                           | Dibenz(a h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 340                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3042                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | 111                                            |                                                                                                                                                                                                                                                                                                                                                                                              | 250                                                                                                                                                                 |                                                                                                                                                       | . n                        |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3041                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,n)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3040                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3039                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 340                                                                                                                                                                 | UG/KG                                                                                                                                                 | υ                          |
| 36.005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3038                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | υ                          |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 00-0007                                                                                                                                                                                                                  | 0                                       | e e                                                                                    | INI                                            | Dibonz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | LIG/KG                                                                                                                                                | U.                         |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3037                                                                                                                                                                                                                  | U                                       | 0                                                                                      | IIN                                            | Diberiz(a,ii)antinacene                                                                                                                                                                                                                                                                                                                                                                      | 240                                                                                                                                                                 | UC/KC                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3036                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,n)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 340                                                                                                                                                                 | UG/KG                                                                                                                                                 | 0                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3035                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3034                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 26 005                                                                                                                                                                                                                                                                                                                                                                                                             | 26 2024                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | υ                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3034                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | 111                                            |                                                                                                                                                                                                                                                                                                                                                                                              | 140000                                                                                                                                                              | LIGIKG                                                                                                                                                | ũ                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3026                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,n)antinacene                                                                                                                                                                                                                                                                                                                                                                        | 140000                                                                                                                                                              | UG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3025                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3024                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 400                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 26 005                                                                                                                                                                                                                                                                                                                                                                                                             | 36 2022                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 370                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3023                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | 11                                             | Dibenz(a,h)anthracono                                                                                                                                                                                                                                                                                                                                                                        | 360                                                                                                                                                                 | LIG/KG                                                                                                                                                | . ū                        |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3022                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | nn                                             | Diberiz(a,ii)aritinacerie                                                                                                                                                                                                                                                                                                                                                                    | 300                                                                                                                                                                 | UQ/KQ                                                                                                                                                 | ŭ                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3021                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 400                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3020                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 370                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3019                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,h)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 370                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 00-005                                                                                                                                                                                                                                                                                                                                                                                                             | 00 0010                                                                                                                                                                                                                  | õ                                       | é                                                                                      | IN                                             | Dibenz(a b)antbracene                                                                                                                                                                                                                                                                                                                                                                        | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | 11                         |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3010                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | 111                                            | Dibenz(a,n)anninacene                                                                                                                                                                                                                                                                                                                                                                        | 030                                                                                                                                                                 | UC/KC                                                                                                                                                 | ŭ                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3018                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenz(a,n)anthracene                                                                                                                                                                                                                                                                                                                                                                        | 370                                                                                                                                                                 | UG/KG                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3051                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenzofuran                                                                                                                                                                                                                                                                                                                                                                                 | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3050                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenzofuran                                                                                                                                                                                                                                                                                                                                                                                 | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 26 005                                                                                                                                                                                                                                                                                                                                                                                                             | 26 2050                                                                                                                                                                                                                  | õ                                       | 6                                                                                      | IN                                             | Dibenzofuran                                                                                                                                                                                                                                                                                                                                                                                 | 350                                                                                                                                                                 | UG/KG                                                                                                                                                 | U                          |
| 30-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3030                                                                                                                                                                                                                  | 0                                       | 0                                                                                      | 11.1                                           | Dibenzeluran                                                                                                                                                                                                                                                                                                                                                                                 | 240                                                                                                                                                                 |                                                                                                                                                       | ň                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3049                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenzoluran                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                     |                                                                                                                                                       |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 00 00 40                                                                                                                                                                                                                 | +                                       |                                                                                        |                                                |                                                                                                                                                                                                                                                                                                                                                                                              | 340                                                                                                                                                                 | UQ/KQ                                                                                                                                                 |                            |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 30-3048                                                                                                                                                                                                                  | 0                                       | 6                                                                                      | IN                                             | Dibenzofuran                                                                                                                                                                                                                                                                                                                                                                                 | 360                                                                                                                                                                 | UG/KG                                                                                                                                                 | 0                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-3048                                                                                                                                                                                                                  | 0                                       | 6<br>6                                                                                 | IN<br>IN                                       | Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                                                                                                                 | 340<br>360<br>390                                                                                                                                                   | UG/KG<br>UG/KG                                                                                                                                        | υ                          |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3048<br>36-3047<br>36-3046                                                                                                                                                                                            | 0                                       | 6<br>6                                                                                 | IN<br>IN<br>IN                                 | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                                                                                                 | 340<br>360<br>390<br>360                                                                                                                                            | UG/KG<br>UG/KG<br>UG/KG                                                                                                                               | บ<br>บ                     |
| 36-005                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3048<br>36-3047<br>36-3046                                                                                                                                                                                            | 0                                       | 6<br>6<br>6                                                                            | IN<br>IN<br>IN                                 | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380                                                                                                                                     | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                                                      | บ<br>บ<br>บ                |
| 36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                   | 36-3048<br>36-3047<br>36-3046<br>36-3045                                                                                                                                                                                 | 0<br>0<br>0                             | 6<br>6<br>6                                                                            | IN<br>IN<br>IN                                 | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380                                                                                                                                     | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                                                      | U<br>U<br>U                |
| 36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                         | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044                                                                                                                                                                      | 0<br>0<br>0<br>0<br>0                   | 6<br>6<br>6<br>6                                                                       | IN<br>IN<br>IN<br>IN                           | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                                                                 | 360<br>390<br>360<br>380<br>380                                                                                                                                     | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                                                      | U<br>U<br>U                |
| 36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                               | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043                                                                                                                                                           | 0<br>0<br>0<br>0<br>0                   | 6<br>6<br>6<br>6<br>6                                                                  | IN<br>IN<br>IN<br>IN<br>IN                     | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                                                 | 360<br>360<br>360<br>380<br>380<br>380<br>380                                                                                                                       | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                                    | U<br>U<br>U<br>U           |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                     | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042                                                                                                                                                |                                         | 6<br>6<br>6<br>6<br>6                                                                  | IN<br>IN<br>IN<br>IN<br>IN<br>IN               | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>360<br>350                                                                                                                | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                                    | บ<br>บ<br>บ<br>บ<br>บ<br>บ |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                           | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042                                                                                                                                     |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6                                                        |                                                | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>360<br>350<br>340                                                                                                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                           |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                           | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042                                                                                                                                     |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                               |                                                | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>360<br>350<br>350                                                                                                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                           |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                 | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3042                                                                                                                          |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                                   | IN<br>IN<br>IN<br>IN<br>IN<br>IN<br>IN         | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                                 | 360<br>390<br>360<br>380<br>380<br>380<br>360<br>350<br>340<br>350                                                                                                  | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                  |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                             | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040                                                                                                               |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6                                                        | in<br>In<br>In<br>In<br>In<br>In<br>In         | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>360<br>350<br>340<br>350<br>350                                                                                           | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                  |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                             | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3040<br>36-3040<br>36-3039                                                                                                    |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6                                                        | N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>360<br>350<br>340<br>350<br>350<br>340                                                                                    | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                         |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                         | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038                                                                                         |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                               |                                                | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>360<br>350<br>350<br>350<br>340<br>360                                                                                    | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                   | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3038                                                                   |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                |                                                | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                                                 | 340<br>360<br>390<br>380<br>380<br>380<br>350<br>340<br>350<br>350<br>340<br>350<br>350<br>350<br>350                                                               | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                               | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037                                                                              |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                |                                                | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>35                                                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                       |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                               | 36-3048<br>36-3047<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3042<br>36-3041<br>36-3039<br>36-3038<br>36-3038<br>36-3037<br>36-3036                                                                   |                                         | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2        | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                                                                                                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>350<br>350<br>340<br>350<br>340<br>350<br>350<br>340<br>350<br>340                                                        | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                       |                            |
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| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                         | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3026<br>36-3025                       |                                         | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                                          | <b>Z</b> Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                                 | 340<br>360<br>390<br>360<br>380<br>380<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>35                                                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          |                            |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                   | 36-3048<br>36-3047<br>36-3045<br>36-3044<br>36-3043<br>36-3042<br>36-3042<br>36-3042<br>36-3042<br>36-3039<br>36-3039<br>36-3038<br>36-3038<br>36-3035<br>36-3035<br>36-3034<br>36-3024                                  | 000000000000000000000000000000000000000 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                                | <b>Z</b> Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran                                 | 340<br>360<br>390<br>360<br>380<br>350<br>350<br>340<br>350<br>350<br>340<br>350<br>350<br>340<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>35 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG |                            |
| 36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005                                                                                  | 36-3048<br>36-3047<br>36-3046<br>36-3045<br>36-3044<br>36-3042<br>36-3042<br>36-3040<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3038<br>36-3034<br>36-3034<br>36-3034<br>36-3025<br>36-3024                       | 000000000000000000000000000000000000000 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                                | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2        | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran | 340<br>360<br>390<br>360<br>380<br>350<br>340<br>350<br>340<br>350<br>340<br>350<br>340<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>35        | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG |                            |
| 36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005   36-005 | 36-3048<br>36-3047<br>36-3045<br>36-3044<br>36-3044<br>36-3042<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3026<br>36-3025<br>36-3024<br>36-3020 | 000000000000000000000000000000000000000 | 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                                                |                                                | Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran<br>Dibenzofuran | 340<br>360<br>390<br>360<br>380<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>35                                                                | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          |                            |

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| 36-005 | 36-3021 | ٥ | 6      | IN          | Dibenzofuran                  | 400         | UG/KG  | 13              |
|--------|---------|---|--------|-------------|-------------------------------|-------------|--------|-----------------|
| 26 005 | 36-3020 | 0 | Ê      | IN          | Dibenzefuran                  |             | UG/KG  | ŭ               |
| 36-005 | 30-3020 | 0 | 0      | IIN         | Diberizoluran                 | 370         | UG/KG  | 0               |
| 36-005 | 36-3019 | 0 | 6      | IN          | Dibenzoturan                  | 370         | UG/KG  | U               |
| 36-005 | 36-3018 | 0 | 6      | IN          | Dibenzofuran                  | <b>3</b> 50 | UG/KG  | U               |
| 36-005 | 36-3018 | 0 | 6      | IN          | Dibenzofuran                  | 370         | UG/KG  | U               |
| 36-005 | 36-3051 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 10          | UG/KG  | U               |
| 36-005 | 36-3050 | 0 | 6      | IN          | Dibromo-3-chioropropane[1,2-] | 11          | LIG/KG | -<br>           |
| 36.005 | 26,2050 | 0 | ŝ      | IN          | Dibromo 3 objeropropane[1,2-] | 11          |        | U U             |
| 30-005 | 30-3050 | 0 | 0      | lin         | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3049 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3048 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | UJ              |
| 36-005 | 36-3047 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 12          | UG/KG  | U               |
| 36-005 | 36-3046 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | LIG/KG | Ū.              |
| 36-005 | 36-3045 | õ | ê      | INI         | Dibromo-3-chioropropano[1,2]  | 11          | UG/KG  | Ŭ               |
| 00-005 | 00-0040 | õ | ~      | 1.1         | Dibromo-S-chloropropane[1,2-] | E1          |        | 05              |
| 36-005 | 36-3044 | 0 | 6      | IN          | Dibromo-3-chioropropane[1,2-] | 11          | UG/KG  | UJ              |
| 36-005 | 36-3043 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 10          | UG/KG  | U               |
| 36-005 | 36-3042 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | UJ              |
| 36-005 | 36-3042 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 10          | UG/KG  | UJ              |
| 36-005 | 36-3041 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 10          | UG/KG  | U               |
| 36-005 | 36-3040 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 10          | LIG/KG | Ű.              |
| 36-005 | 36-3030 | õ | 6      | IN          | Dibromo-3-chloropropano[1,2,] | 10          |        | 5               |
| 30-005 | 00-0000 | 0 | 0      | IN          |                               | 10          | UG/KG  | U               |
| 36-005 | 36-3038 | 0 | 6      | IN          | Dibromo-3-chioropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3037 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 10          | UG/KG  | U               |
| 36-005 | 36-3036 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3035 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3034 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3034 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 10          | UG/KG  | н<br>Н          |
| 36.005 | 36-3036 | õ | ě      | IN          | Dibromo 3-chloropropano[1,2]  | 50          |        | 0               |
| 30-005 | 00-0020 | 0 | 0      | 111         | Dibromo-3-chloropropane[1,2-] | 50          | UG/KG  | U               |
| 36-005 | 36-3025 | 0 | 6      | IN          | Dibromo-3-chioropropane[1,2-] | 10          | UG/KG  | U               |
| 36-005 | 36-3024 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 12          | UG/KG  | U               |
| 36-005 | 36-3023 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | UJ <sup>·</sup> |
| 36-005 | 36-3022 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 12          | UG/KG  | U               |
| 36-005 | 36-3021 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 12          | UG/KG  | IJJ             |
| 36-005 | 36-3020 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | 111             |
| 36-005 | 36-3019 | õ | ã      | IN          | Dibromo-3-chloropropano[1,2-] | 11          | UG/KG  | 11              |
| 36-005 | 06-0019 | 0 | 6      | IN IN       | Dibromo 0 ebloropropane[1,2-] | 11          |        | 0               |
| 30-005 | 36-3018 | 0 | 6      | lini        | Dibromo-3-chioropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3018 | 0 | 6      | IN          | Dibromo-3-chloropropane[1,2-] | 11          | UG/KG  | U               |
| 36-005 | 36-3051 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 5           | UG/KG  | U               |
| 36-005 | 36-3050 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3050 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3049 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3048 | Ō | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  |                 |
| 36-005 | 36-3047 | 0 | 6      | IN          | Dibromoethane[1,2-]           | ě           | HG/KG  | U U             |
| 36-005 | 36-3046 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 0           |        | 0               |
| 36-005 | 30-3040 | 0 | 0      | IN          | Dibromoetnane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3045 | U | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3044 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3043 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 5           | UG/KG  | U               |
| 36-005 | 36-3042 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | 11.1            |
| 36-005 | 36-3042 | 0 | 6      | IN          | Dibromoethane(1,2-)           | 5           | UG/KG  |                 |
| 26 005 | 26 2041 | õ | é      | ani         | Dibromoethane[1,2-]           | 5           | UG/KG  | 0               |
| 30-005 | 30-3041 | 0 | 0      | 10          | Dibromoethane[1,2-]           | 5           | UG/KG  | U               |
| 36-005 | 36-3040 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 5           | UG/KG  | U               |
| 36-005 | 36-3039 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 5           | UG/KG  | U               |
| 36-005 | 36-3038 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3037 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 5           | UG/KG  | U               |
| 36-005 | 36-3036 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U U             |
| 36-005 | 36-3035 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           |        | Ű               |
| 26 005 | 26 2024 | ő | ě      | IN          | Dibromoethane[1,2]            | 0           |        | 0               |
| 30-005 | 30-3034 | 0 | 0      | IIN IN      | Dibromoethane[1,2-j           | 6           | UG/KG  | U               |
| 36-005 | 36-3034 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 5           | UG/KG  | 0               |
| 36-005 | 36-3026 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 25          | UG/KG  | U               |
| 36-005 | 36-3025 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 5           | UG/KG  | U               |
| 36-005 | 36-3024 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3023 | 0 | 6      | IN          | Dibromoethane(1,2-)           | 6           | UG/KG  | Ū.              |
| 36-005 | 36-3022 | 0 | Ē      | IN          | Dibromoethane(1,2-)           | 6           | UG/KG  |                 |
| 36 005 | 26 2021 | 0 | 6      | IN          | Dibromoethane(1,2-)           | 0           |        | 0               |
| 00-000 | 00-0021 | 0 | 0      |             |                               | D           |        | U               |
| 30-005 | 30-3020 | U | ь      | IN          | Ulbromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3019 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3018 | 0 | 6      | IN          | Dibromoethane[1,2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3018 | 0 | 6      | IN          | Dibromoethane[1.2-]           | 6           | UG/KG  | U               |
| 36-005 | 36-3051 | 0 | 6      | IN          | Dibromomethane                | 5           | UG/KG  | ū               |
| 36-005 | 36-3050 | ñ | 6      | IN          | Dibromomethane                | 5           |        | ŭ               |
| 26 005 | 26 2050 | õ | 6      | ii N<br>jKi | Dibromomothere                | 0           |        | 0               |
| 30-005 | 30-3050 | 0 | o<br>c | HN IS I     | Dibromomethane                | ť           | UG/KG  | U               |
| 36-005 | 36-3049 | 0 | 6      | IN          | Dibromomethane                | 6           | UG/KG  | U               |
| 36-005 | 36-3048 | 0 | 6      | IN          | Dibromomethane                | 6           | UG/KG  | U               |
| 36-005 | 36-3047 | 0 | 6      | IN          | Dibromomethane                | 6           | UG/KG  | U               |
| 36-005 | 36-3046 | 0 | 6      | IN          | Dibromomethane                | 6           | UG/KG  | U               |

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| 36-005 | 36-3045  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | U    |
|--------|----------|-----|--------|-------|-----------------------|--------|--------|------|
| 36-005 | 36-3044  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | U    |
| 36-005 | 36-3043  | õ   | 6      | IN    | Dibromomethane        | 5      | UG/KG  | U    |
| 30-005 | 26 2040  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | U    |
| 36-005 | 36-3042  | 0   | 0      | IN    | Dibromomothano        | 5      | UG/KG  | Ū.   |
| 36-005 | 36-3042  | 0   | 0      | IIN   | Dibromomethane        | 5      | UG/KG  |      |
| 36-005 | 36-3041  | 0   | 6      | IN    | Dibromometnane        | 5      |        |      |
| 36-005 | 36-3040  | 0   | 6      | IN    | Dibromomethane        | 5      | UG/KG  | 0    |
| 36-005 | 36-3039  | 0   | 6      | IN    | Dibromomethane        | 5      | UG/KG  | U    |
| 36-005 | 36-3038  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | υ    |
| 36-005 | 36-3037  | 0   | 6      | IN    | Dibromomethane        | 5      | UG/KG  | U    |
| 30-005 | 26,2026  | ő   | 6      | iNI   | Dibromomethane        | 6      | UG/KG  | υ    |
| 36-005 | 30-3030  | 0   | e<br>e | IN    | Dibromomethane        | 6      | UG/KG  | ū    |
| 36-005 | 36-3035  | 0   | ю      | IN    | Dibromomethane        | 6      | UG/KG  | ň    |
| 36-005 | 36-3034  | 0   | 6      | IN    | Dipromomethane        | 0      |        |      |
| 36-005 | 36-3034  | 0   | 6      | IN    | Dibromomethane        | 5      | UG/KG  | 0    |
| 36-005 | 36-3026  | 0   | 6      | IN    | Dibromomethane        | 25     | UG/KG  | U    |
| 36-005 | 36-3025  | 0   | 6      | IN    | Dibromomethane        | 5      | UG/KG  | U    |
| 36-005 | 36-3024  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | U    |
| 36.005 | 26 2023  | õ   | ē      | IN    | Dibromomethane        | 6      | UG/KG  | U    |
| 30-005 | 30-3023  | 0   | č      | iNI   | Dibromomothane        | 6      | LIG/KG | u    |
| 36-005 | 36-3022  | 0   | 6      |       | Dibiomomethane        | 6      |        | ŭ    |
| 36-005 | 36-3021  | 0   | 6      | IN    | Dibromomethane        | 8      | UG/KG  |      |
| 36-005 | 36-3020  | 0   | 6      | IN    | Dibromomethane        | Б      | UG/KG  | U    |
| 36-005 | 36-3019  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | U    |
| 36-005 | 36-3018  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | υ    |
| 36-005 | 36-3018  | 0   | 6      | IN    | Dibromomethane        | 6      | UG/KG  | U    |
| 26 005 | 26 2051  | Ő   | 6      | iN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | υ    |
| 36-005 | 30-3051  | 0   | č      | 11.1  | Dishlorobonzono[1,2-] | 5      | LIG/KG | Ū.   |
| 36-005 | 36-3051  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 300    |        |      |
| 36-005 | 36-3050  | 0   | 6      | IN    | Dichloropenzene[1,2-] | 360    |        |      |
| 36-005 | 36-3050  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 36-005 | 36-3050  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | U    |
| 36-005 | 36-3050  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 26-005 | 36-3040  | 0   | 6      | IN    | Dichlorobenzene[1.2-] | 340    | UG/KG  | U    |
| 30-005 | 00-0040  | õ   | é      | INI   | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 36-005 | 36-3049  | 0   | 0      | 111   | Dichlorobenzene[1,2]  | 360    | UG/KG  |      |
| 36-005 | 36-3048  | U   | 6      | IN    | Dichlorobenzene[1,2-] | 5550   | UG/KG  |      |
| 36-005 | 36-3048  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 0      |        | 00   |
| 36-005 | 36-3047  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 390    | UG/KG  | U    |
| 36-005 | 36-3047  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 36-005 | 36-3046  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 360    | UG/KG  | U    |
| 36-005 | 36-3046  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 36-005 | 26 2045  | ő   | ē      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | UJ   |
| 30-005 | 30-3045  | 0   | 6      | IN    | Dichlorobonzono[1,2_] | 380    | UG/KG  | 11   |
| 36-005 | 36-3045  | 0   | D<br>O | IN    | Dichlorobenzene[1,2-] | 550    |        |      |
| 36-005 | 36-3044  | 0   | 6      | IN    | Dichlorobenzene(1,2-) | 6      |        | 00   |
| 36-005 | 36-3044  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 380    | UG/KG  | 0    |
| 36-005 | 36-3043  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 360    | UG/KG  | U    |
| 36-005 | 36-3043  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 5      | UG/KG  | U    |
| 36-005 | 36-3042  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | U    |
| 36-005 | 26 2042  | õ   | ĕ      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | UJ   |
| 36-005 | 30-3042  | 0   | 6      | IN    | Dichlorobonzono[1,2]  | 5      | UG/KG  | Ŭ.   |
| 36-005 | 36-3042  | 0   | D<br>D | IIN   | Dichlorobenzene[1,2-] | 340    | UG/KG  |      |
| 36-005 | 36-3042  | 0   | 6      | IN    | Dichlorobenzene[1,2-j | 340    |        |      |
| 36-005 | 36-3041  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 5      | UG/KG  | 0    |
| 36-005 | 36-3041  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | UR   |
| 36-005 | 36-3040  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 5      | UG/KG  | U    |
| 26-005 | 36-3040  | Ō   | 6      | IN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | UR   |
| 30-005 | 30-30-40 | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 5      | UG/KG  | Ū    |
| 36-005 | 36-3039  | 0   | 0      |       | Dichlorobenzene[1,2-] | 340    | UG/KG  | ЦВ   |
| 36-005 | 36-3039  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 340    |        |      |
| 36-005 | 36-3038  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 360    | UG/KG  | UH   |
| 36-005 | 36-3038  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 36-005 | 36-3037  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 5      | UG/KG  | U    |
| 36-005 | 36-3037  | Ô   | 6      | IN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | UR   |
| 26 005 | 26 2026  | õ   | ŝ      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 30-005 | 30-3030  | 0   | 6      | IN    | Dichlorobonzono[1,2]  | 340    | UG/KG  | LIB  |
| 36-005 | 36-3036  | 0   | D      | IN    | Dichlorobenzene[1,2-] | 340    |        |      |
| 36-005 | 36-3035  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 0      | UG/KG  |      |
| 36-005 | 36-3035  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | UH   |
| 36-005 | 36-3034  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | U    |
| 36-005 | 36-3034  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 350    | UG/KG  | UR   |
| 36-005 | 36-3034  | ň   | Â      | IN    | Dichlorobenzene[1,2-] | 5      | UG/KG  | U    |
| 30-003 | 00-0004  |     | 6      | 114   | Dichlorobenzeno[1,2-] | 350    | LIG/KG | 1 P  |
| 36-005 | 36-3034  | U   | 0      | 10    |                       | 300    | LO/KG  |      |
| 36-005 | 36-3026  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 140000 | UG/KG  |      |
| 36-005 | 36-3026  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 25     | UG/KG  | U    |
| 36-005 | 36-3025  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 360    | UG/KG  | U    |
| 36-005 | 36-3025  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 5      | UG/KG  | U    |
| 36-005 | 36-3024  | ō   | 6      | IN    | Dichlorobenzene[1,2-] | 400    | UG/KG  | υ    |
| 30-005 | 00-0024  | Š   | e o    | IN IN | Dichlorobenzene[1,2-] | 6      | UG/KG  | , ii |
| 30-005 | 30-3024  | U . | 0      | 11N   |                       |        | HGMG   |      |
| 36-005 | 36-3023  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 370    |        |      |
| 36-005 | 36-3023  | 0   | 6      | IN    | Dichlorobenzene[1,2-] | 6      | UG/KG  | ŲJ   |

| 36-005 | 36-3022 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 360    | UG/KG | U   |
|--------|---------|---|---|-------------|-----------------------|--------|-------|-----|
| 36-005 | 36-3022 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 6      | UG/KG | U   |
| 36-005 | 36-3021 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 400    | UG/KG | U   |
| 36-005 | 36-3021 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 6      | UG/KG | UJ  |
| 36-005 | 36-3020 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 370    | UG/KG | υ   |
| 36-005 | 36-3020 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 6      | UG/KG | UJ  |
| 36-005 | 36-3019 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 370    | UG/KG | U   |
| 36-005 | 36-3019 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 6      | UG/KG | U   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 350    | UG/KG | υ   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 6      | UG/KG | Ū   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 370    | UG/KG | ũ   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,2-] | 6      | UG/KG | Ū   |
| 36-005 | 36-3051 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 350    | UG/KG | ũ   |
| 36-005 | 36-3051 | 0 | 6 | IN          | Dichlorobenzene(1,3-) | 5      | UG/KG | ŭ   |
| 36-005 | 36-3050 | 0 | 6 | IN          | Dichlorobenzene(1,3-) | 360    | UG/KG | ū   |
| 36-005 | 36-3050 | Ō | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | ŭ   |
| 36-005 | 36-3050 | Ō | 6 | IN          | Dichlorobenzene[1,3-] | 350    | UG/KG | Ŭ   |
| 36-005 | 36-3050 | 0 | 6 | IN          | Dichlorobenzene[1.3-] | 6      | UG/KG | Ū   |
| 36-005 | 36-3049 | Ō | 6 | IN          | Dichlorobenzene[1,3-] | 340    | UG/KG | ŭ   |
| 36-005 | 36-3049 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | U U |
| 36-005 | 36-3048 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 360    | UG/KG | U U |
| 36-005 | 36-3048 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | ц.  |
| 36-005 | 36-3047 | ō | 6 | IN          | Dichlorobenzene[1,3-] | 390    | UG/KG | 1   |
| 36-005 | 36-3047 | õ | õ | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG |     |
| 36-005 | 36-3046 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 360    | UG/KG | 1   |
| 36-005 | 36-3046 | õ | õ | IN          | Dichlorobenzene(1,3-) | 6      | UG/KG |     |
| 36-005 | 36-3045 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 380    | UG/KG |     |
| 36-005 | 36-3045 | õ | ő | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG |     |
| 36-005 | 36-3044 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 380    | UG/KG | 11  |
| 36-005 | 36-3044 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 500    | UG/KG |     |
| 36-005 | 36-3043 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 360    | UG/KG | 11  |
| 36-005 | 36-3043 | õ | 6 | IN          | Dichlorobenzene[1,3-] | 500    | UG/KG |     |
| 36-005 | 36-3042 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 350    | UG/KG |     |
| 36-005 | 36-3042 | õ | ő | IN          | Dichlorobenzene[1,3-] | 550    | UG/KG |     |
| 36-005 | 36-3042 | ő | ő | IN          | Dichlorobenzene[1,3-] | 340    | UG/KG | 11  |
| 36-005 | 36-3042 | ő | 6 | IN          | Dichlorobenzene[1,3-] | 5      | UG/KG |     |
| 36-005 | 36-3041 | Ő | 6 | IN          | Dichlorobenzene(1,3-) | 3      |       | 00  |
| 36-005 | 36-3041 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 3      |       |     |
| 36-005 | 36-3040 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 550    |       |     |
| 36-005 | 36-3040 | ő | 6 | IN          | Dichlorobenzene[1,3-] | 350    |       | 0   |
| 36-005 | 36-3030 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 350    |       | 0   |
| 36-005 | 36-3039 | ő | 6 | IN          | Dichlorobenzene[1,3-] | 340    |       |     |
| 36-005 | 36-3038 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 540    | UG/KG |     |
| 36-005 | 36-3038 | Ő | 6 | IN          | Dichlorobenzene[1,3-] | 260    |       |     |
| 36-005 | 36-3037 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 500    |       |     |
| 36-005 | 36-3037 | 0 | 6 | IN          | Dichlorobonzono[1,2]  | 350    |       | 0   |
| 36-005 | 36-3036 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 350    |       | 0   |
| 36-005 | 36-3036 | 0 | 6 | IN          | Dichlorobonzono(1,2,) | 8      |       | U   |
| 36-005 | 36-3035 | 0 | 6 | IN          | Dichlorobanzone(1,3-) | 340    |       | 0   |
| 36-005 | 36-3035 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      |       | 0   |
| 36-005 | 36 3033 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 350    |       | 0   |
| 36-005 | 26 2024 | 0 | 6 | IN IN       | Dichlorobenzene[1,3-] | 6      | UG/KG |     |
| 30-005 | 26 2024 | 0 | 6 | UN<br>IN    | Dichlorobenzene[1,3-] | 350    | UG/KG |     |
| 30-005 | 36-3034 | 0 | 6 | IN IN       | Dichlorobenzene[1,3-] | 5      | UG/KG |     |
| 30-005 | 30-3034 | 0 | 6 | HN HN       | Dichlorobenzene[1,3-] | 350    | UG/KG | 0   |
| 30-005 | 36-3026 | 0 | 0 | lini<br>Ini | Dichlorobenzene[1,3-] | 140000 | UG/KG | 0   |
| 36-005 | 36-3026 | 0 | 6 |             | Dichlorobenzene[1,3-] | 25     | UG/KG | U   |
| 36-005 | 36-3025 | 0 | 6 |             | Dichlorobenzene(1,3-) | 360    | UG/KG | U   |
| 36-005 | 36-3025 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 5      | UG/KG | U   |
| 36-005 | 36-3024 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 400    | UG/KG | U   |
| 36-005 | 36-3024 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | U   |
| 36-005 | 36-3023 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 370    | UG/KG | U   |
| 36-005 | 36-3023 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | UJ  |
| 36-005 | 36-3022 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 360    | UG/KG | U   |
| 30-005 | 30-3022 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | U   |
| 30-005 | 36-3021 | U | 6 | IN          | UICNIOROBENZENE[1,3-] | 400    | UG/KG | U   |
| 36-005 | 36-3021 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | UJ  |
| 36-005 | 36-3020 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 370    | UG/KG | U   |
| 36-005 | 36-3020 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | UJ  |
| 36-005 | 36-3019 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 370    | UG/KG | U   |
| 36-005 | 36-3019 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | U   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 350    | UG/KG | υ   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | U   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 370    | UG/KG | U   |
| 36-005 | 36-3018 | 0 | 6 | IN          | Dichlorobenzene[1,3-] | 6      | UG/KG | U   |

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|        |         |   |        |         |                             |        | 110/200 | 11   |
|--------|---------|---|--------|---------|-----------------------------|--------|---------|------|
| 36-005 | 36-3051 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 5      | UG/KG   |      |
| 36-005 | 36-2051 | 0 | 6<br>6 | IN      | Dichlorobenzene[1,4-]       | 350    | UG/KG   | U    |
| 30-005 | 30-3051 | õ | 0      | IN      | Dichlorobenzene[1,4-]       | 360    | UG/KG   | U    |
| 36-005 | 36-3050 | 0 | 0      |         |                             | Ê      | UG/KG   | U    |
| 36-005 | 36-3050 | 0 | 6      | IN      | Dichlorobenzene(1,4-)       | 0      |         | Ū.   |
| 36-005 | 36-3050 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 350    | UG/KG   |      |
| 36-005 | 36-3050 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   |      |
| 36-005 | 36-3049 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 340    | UG/KG   | U    |
| 36-005 | 36-3049 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 26 005 | 26 2049 | õ | 6      | INI     | Dichlorobenzene[1,4-]       | 360    | UG/KG   | U    |
| 36-005 | 30-3048 | 0 | 0      | IIN INI | Dichlorobenzone[1,4]        | 6      | UG/KG   | IJ   |
| 36-005 | 36-3048 | U | ь      | IN      | Dichlorobenzene[1,4-]       | 200    |         | 11   |
| 36-005 | 36-3047 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 390    |         |      |
| 36-005 | 36-3047 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 36-005 | 36-3046 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 360    | UG/KG   | U    |
| 26-005 | 36-3046 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 00-005 | 26 2045 | õ | 6      | IN      | Dichlorobenzene[1 4-]       | 380    | UG/KG   | U    |
| 36-005 | 30-3045 | 0 | 0      | 11.1    | Dichlorobenzene[1,4]        | 6      | UG/KG   | U.)  |
| 36-005 | 36-3045 | U | 0      | IIN     | Dichlorobenzene[1,+-]       | 280    | UG/KG   | 11   |
| 36-005 | 36-3044 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 380    | UG/KG   |      |
| 36-005 | 36-3044 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | 05   |
| 36-005 | 36-3043 | 0 | 6      | IN      | Dichiorobenzene[1,4-]       | 5      | UG/KG   | U    |
| 26 005 | 36-3043 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 360    | UG/KG   | U    |
| 30-005 | 26 2042 | õ | ē      | IN      | Dichlorobenzene[1,4-]       | 350    | UG/KG   | U    |
| 36-005 | 30-3042 | 0 | 0      | 1.1     | Dichlerebenzene[1,4,]       | 6      | LIG/KG  | 44.1 |
| 36-005 | 36-3042 | 0 | 0      | IN      | Dichlorobenzene[1,4]        | 240    | UG/KG   | 11   |
| 36-005 | 36-3042 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 340    | UG/KG   |      |
| 36-005 | 36-3042 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 5      | UG/KG   | 05   |
| 36-005 | 36-3041 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 5      | UG/KG   | U    |
| 00 000 | 26 2041 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 350    | UG/KG   | υ    |
| 30-005 | 30-3041 | 0 | e<br>e | INI     | Dichlorobenzene[1,4-]       | 5      | UG/KG   | υ    |
| 36-005 | 36-3040 | 0 | 0      |         |                             | 350    | LIG/KG  |      |
| 36-005 | 36-3040 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 350    | UC/KG   |      |
| 36-005 | 36-3039 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 5      | UG/KG   |      |
| 36-005 | 36-3039 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 340    | UG/KG   | U    |
| 26.005 | 36-3038 | ō | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 30-005 | 00-0000 | õ | e<br>e | IN      | Dichlorobenzene[1 4-]       | 360    | UG/KG   | U    |
| 36-005 | 30-3030 | 0 | 0      | IN IN   | Dichlerebenzene[1,1]        | 5      | UG/KG   | U    |
| 36-005 | 36-3037 | 0 | ь      | IN      | Dichiorobenzene[1,4-]       | 250    | UG/KG   |      |
| 36-005 | 36-3037 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 350    |         |      |
| 36-005 | 36-3036 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 36-005 | 36-3036 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 340    | UG/KG   | U    |
| 26-005 | 36-3035 | Ō | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 30-005 | 00-0005 | õ | e      | INI     | Dichlorobenzene[1.4-]       | 350    | UG/KG   | υ    |
| 36-005 | 36-3035 | 0 | 0      | 11 1    | Dichiorobenzone[1,4]        | 6      | UG/KG   | U.   |
| 36-005 | 36-3034 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 250    | UG/KG   | ŭ    |
| 36-005 | 36-3034 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 350    |         |      |
| 36-005 | 36-3034 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 5      | UG/KG   | U    |
| 36-005 | 36-3034 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 350    | UG/KG   | U    |
| 26.005 | 36-3026 | 0 | 6      | IN      | Dichlorobenzene[1.4-]       | 140000 | UG/KG   | U    |
| 30-005 | 00-0020 | õ | Ē      | IN      | Dichlorobenzene[1.4-]       | 25     | UG/KG   | υ    |
| 36-005 | 30-3020 | 0 | 0      | 11.1    | Dichlorobenzone[1,4]        | 360    | UG/KG   | Ū.   |
| 36-005 | 36-3025 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 300    |         |      |
| 36-005 | 36-3025 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 5      | UG/KG   |      |
| 36-005 | 36-3024 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 400    | UG/KG   | U    |
| 36-005 | 36-3024 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 26-005 | 36-3023 | õ | 6      | IN      | Dichlorobenzene[1.4-]       | 370    | UG/KG   | U    |
| 30-005 | 00-0020 | ő | e      | INI     | Dichlorobenzene[1,4-]       | 6      | UG/KG   | UJ   |
| 36-005 | 30-3023 | 0 | 0      |         | Dichlorobenzeno[1,1]        | 360    | UG/KG   | 11   |
| 36-005 | 36-3022 | 0 | 6      | IIN     | Dichlorobenzene[1,4-]       | 500    |         |      |
| 36-005 | 36-3022 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 0      | UG/KG   |      |
| 36-005 | 36-3021 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 400    | UG/KG   | U    |
| 36-005 | 36-3021 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | UJ   |
| 36-005 | 36-3020 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 370    | UG/KG   | U    |
| 00-000 | 00-0020 | õ | é      | IN      | Dichlorobenzene[1.4-]       | 6      | UG/KG   | UJ   |
| 36-005 | 30-3020 | 0 | 0      | IN IN   | Dichlorobonzono[1,4-]       | 370    | UG/KG   | U    |
| 36-005 | 36-3019 | 0 | ь      |         | Dichlorobenzene[1,4-]       | 610    | UG/KG   |      |
| 36-005 | 36-3019 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   |      |
| 36-005 | 36-3018 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 350    | UG/KG   | U    |
| 36-005 | 36-3018 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 6      | UG/KG   | U    |
| 36-005 | 36-3018 | 0 | 6      | IN      | Dichlorobenzene[1,4-]       | 370    | UG/KG   | U    |
| 00 000 | 26 2019 | ň | 6      | IN      | Dichlorobenzene[1 4-]       | 6      | UG/KG   | U    |
| 30-005 | 30-3010 | 0 | é      | IN      | Dichlorobenzidine[3,3'-]    | 710    | UG/KG   | U    |
| 36-005 | 36-3051 | 0 | 0      |         | Dichlorobenzidine[0,0*]     | 710    |         |      |
| 36-005 | 36-3050 | 0 | 6      | IN      | Dichlorobenzialne[3,3-]     | 710    |         |      |
| 36-005 | 36-3050 | 0 | 6      | IN      | Dichlorobenzidine[3,3'-]    | 700    | UG/KG   | U    |
| 36-005 | 36-3049 | 0 | 6      | IN      | Dichlorobenzidine[3,3'-]    | 680    | UG/KG   | U    |
| 36-005 | 36-3048 | 0 | 6      | IN      | Dichlorobenzidine[3.3'-]    | 730    | UG/KG   | U    |
| 36 005 | 26 2047 | ň | ã      | IN      | Dichlorobenzidine[3 3'-]    | 780    | UG/KG   | U    |
| 30-005 | 00-0047 | ~ | 6      | in t    | Dichlorobenzidine[3 3'-1    | 720    | UG/KG   | Ū.   |
| 36-005 | 36-3046 | U | 0      | IN      |                             | 720    | ligiko  |      |
| 36-005 | 36-3045 | 0 | 6      | IN      | Dichlorobenziaine[3,3-]     | 760    |         |      |
| 36-005 | 36-3044 | 0 | 6      | IN      | Dichlorobenzidine[3,3'-]    | 760    | UG/KG   | U    |
| 36-005 | 36-3043 | 0 | 6      | IN      | Dichlorobenzidine[3,3'-]    | 730    | UG/KG   | U    |
| 36-005 | 36-3042 | ñ | 6      | IN      | Dichlorobenzidine[3.3'-]    | 700    | UG/KG   | U    |
| 30-003 | 00-0042 | 0 | 6      | IN      | Dichlorobenzidine[3,3'-]    | 690    | UG/KG   | u    |
| 30-005 | 30-3042 | U | 0      | 11N     | Diction operation of 0.0 -1 |        |         | -    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3041 | 0      | 6 | IN         | Dichlorobenzidine[3.3'-1 | 690    | UG/KG | U  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|--------|---|------------|--------------------------|--------|-------|----|
| <i>x</i> 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 36-005 | 36-3040 | 0      | 6 | IN         | Dichlorobenzidine[3,3'-] | 690    | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3039 | 0      | 6 | IN         | Dichlorobenzidine[3,3'-] | 670    | UG/KG | U  |
| 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 36-005 | 36-3038 | 0      | 6 | IN         | Dichlorobenzidine[3,3'-] | 710    | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3037 | 0      | 6 | IN         | Dichlorobenzidine[3,3'-] | 690    | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3036 | Ō      | 6 | IN         | Dichlorobenzidine[3,3'-] | 680    | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3035 | õ      | 6 | IN         | Dichlorobenzidine[3.3'-] | 710    | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3034 | õ      | ĥ | IN         | Dichlorobenzidine[3,3'-] | 700    | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3034 | õ      | 6 | IN         | Dichlorobenzidine[3,3'-] | 710    | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3026 | õ      | ê | IN         | Dichlorobenzidine[3,3'-] | 270000 | UG/KG | ū  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3025 | Ő      | 6 | IN         | Dichlorobenzidine[3,3'-] | 730    | UG/KG | U. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3023 | 0      | 6 | IN         | Dichlorobenzidine[3,3]   | 800    | UG/KG | ŭ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 30-3024 | 0      | 6 | IN         | Dichlorobenzidine[3,3 -] | 740    | UG/KG |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 30-3023 | 0      | 0 | IIN<br>INI | Dichlorobenzidine[3,3-]  | 740    | UG/KG |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3022 | 0      | 0 | HN IN      | Dichlorobenzidine(3,3-)  | 710    |       |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3021 | 0      | 6 | IN IN      | Dichlorobenzidine[3,3-j  | 310    |       |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3020 | 0      | 0 | IIN IN     | Dichlorobenzidine[3,3-]  | 740    |       |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3019 | 0      | 6 | IIN        | Dichlorobenzidine[3,3-]  | 740    |       |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3018 | 0      | 6 | IN         | Dichlorobenzialne(3,3-)  | 690    | UG/KG | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3018 | 0      | 6 | IN         | Dichlorobenzidine[3,3-]  | 730    | UG/KG | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3051 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3050 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3050 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3049 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3048 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3047 | 0      | 6 | IN         | Dichlorodifluoromethane  | 12     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3046 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3045 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3044 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3043 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3042 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3042 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3041 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3040 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3039 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3038 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3037 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | υ  |
| e de la constance de la consta | 36-005 | 36-3036 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3035 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
| Alex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 36-005 | 36-3034 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3034 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3026 | 0      | 6 | IN         | Dichlorodifluoromethane  | 50     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3025 | 0      | 6 | IN         | Dichlorodifluoromethane  | 10     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3024 | 0      | 6 | IN         | Dichlorodifluoromethane  | 12     | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3023 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3022 | 0      | 6 | IN         | Dichlorodifluoromethane  | 12     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3021 | 0      | 6 | IN         | Dichlorodifluoromethane  | 12     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3020 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3019 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3018 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3018 | 0      | 6 | IN         | Dichlorodifluoromethane  | 11     | UG/KG | ប  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3051 | Ó      | 6 | IN         | Dichloroethane[1,1-]     | 5      | UG/KG | Ű  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3050 | Ō      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | Ū  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3050 | ō      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | ū  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3049 | 0      | 6 | IN         | Dichloroethane[1.1-]     | 6      | UG/KG | ũ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3048 | õ      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | ŭ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3047 | ñ      | 6 | IN         | Dichloroethane[1,1-]     | ě      | UG/KG | ŭ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3046 | õ      | õ | IN         | Dichloroethane[1,1-]     | ě      | UG/KG | ŭ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3045 | ő      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3044 | õ      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30-005 | 26 2042 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 5      | UG/KG |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30-005 | 36-3043 | 0      | 6 | IN         | Dichloroethane(1,1-)     | 5      |       | ŭ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30-005 | 30-3042 | 0      | 0 | HN INI     | Dichloroethane[1,1]      | 6      | UG/KG |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30-005 | 30-3042 | 0      | 0 | IN         | Dichloroethane[1,1]      | 5      |       |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 30-005 | 30-3041 | 0      | o | HN<br>FR I | Dichlorecthen=[1,1*]     | 5      |       | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 30-3040 | U      | 6 | IN         |                          | 5      | UG/KG | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3039 | U<br>A | 6 | IN         |                          | 5      | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3038 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3037 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 5      | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3036 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3035 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3034 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3034 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 5      | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3026 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 25     | UG/KG | U  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3025 | 0      | 6 | 1N         | Dichloroethane[1,1-]     | 5      | UG/KG | υ  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36-005 | 36-3024 | 0      | 6 | IN         | Dichloroethane[1,1-]     | 6      | UG/KG | U  |

|        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 110 4/0   |       |
|--------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------|-------|
| 36-005 | 36-3023  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3022  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 30-003 | 00 0022  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ě   |      | Dichlereethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                     | LIC/KC    |       |
| 36-005 | 36-3021  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | 0     |
| 36-005 | 36-3020  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 00 000 | 00 0010  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | 1.4  | Disblaraathaas[1,1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | c                                     | UGIKG     | 11    |
| 36-005 | 30-3019  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ь   | IN   | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | 0     |
| 36-005 | 36-3018  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 26 005 | 26 2010  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | 11    |
| 30-005 | 30-3010  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | IIN  | Dichloroethane[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                     |           | ŭ     |
| 36-005 | 36-3051  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 26.005 | 36.3050  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane(1,2-)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     |       |
| 30-005 | 30-3030  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | U   | IIN  | Dicinoi de linane [1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                     | Udina     | Ŭ     |
| 36-005 | 36-3050  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 26 005 | 26 2040  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | INI  | Dichloroethane(1,2-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | 11    |
| 30-005 | 30-3049  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | 111  | Dicitior Detitiane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                     | UGING     | Ŭ     |
| 36-005 | 36-3048  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3047  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 00 000 | 00 00 11 | <b>.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | õ   |      | Dishianathana(1,0.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | c -                                   | UC/KC     |       |
| 36-005 | 36-3046  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3045  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 00 005 | 00 00 44 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ĉ   | INT  | Dichlereethene[1,2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | e e                                   | UG/KG     |       |
| 36-005 | 36-3044  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ъ   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | o                                     | UG/KG     | 0     |
| 36-005 | 36-3043  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 20.005 | 26 2040  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | e   | INI  | Dichloroothano[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | LIG/KG    |       |
| 30-005 | 30-3042  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | HN   | Dichloroethane[1,2*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                     | Udind     | 0     |
| 36-005 | 36-3042  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 26 005 | 26 2041  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | LIG/KG    | 11    |
| 30-005 | 30-3041  | U U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | U   | 11.1 | Dicitior de la ne [1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                     | Janca     |       |
| 36-005 | 36-3040  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 36-005 | 36-3030  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 30-003 | 00-0000  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      | Bioiniorocalane[1,2]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       | U.G. M.G  |       |
| 36-005 | 36-3038  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3037  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 00 000 | 00 0007  | č                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       | 0.0.0     |       |
| 36-005 | 36-3036  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-j                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3035  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 00-000 | 00 0000  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |           |       |
| 36-005 | 36-3034  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3034  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 00 000 | 00 0004  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      | Dishiers atheres (4.0.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 05                                    |           |       |
| 36-005 | 36-3026  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-j                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25                                    | UG/KG     | U     |
| 36-005 | 36-3025  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 00 000 | 00 0020  | ő                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      | Dichlere ethene (1,0.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0                                     |           | ň     |
| 36-005 | 36-3024  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-j                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                     | UG/KG     | 0     |
| 36-005 | 36-3023  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 26 005 | 26 2000  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | INI  | Dichloroothano[1,2,]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | e                                     | HG/KG     |       |
| 30-005 | 30-3022  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | IIN  | Dichloroethane[1,2*]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | U                                     | UG/KG     | 0     |
| 36-005 | 36-3021  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 26 005 | 26 2020  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | INI  | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | 11    |
| 30-005 | 30-3020  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | UN   | Dicilioroetilarie[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                                     | Jana      | 0     |
| 36-005 | 36-3019  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3018  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | iN   | Dichloroethane(1.2-)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | LIG/KG    | 11    |
| 30-003 | 30-3010  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | IN   | Dicitior of the first of the fi | 0                                     | 00/RG     |       |
| 36-005 | 36-3018  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethane[1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3051  | ٥                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | LIG/KG    |       |
| 30-005 | 30-3031  | U U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                     | Udinta    |       |
| 36-005 | 36-3050  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3050  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1, 1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6                                     | UG/KG     | LI LI |
| 00 000 | 00 0000  | , in the second s | , v |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                     | UQ/ICG    |       |
| 36-005 | 36-3049  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3048  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | LI LI |
| 00 000 | 00 00 10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      | Dishis set as a [4, 4, ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ,<br>,                                | 10/10     | ŭ     |
| 36-005 | 36-3047  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3046  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 00 005 | 00 0045  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ē   | 18.1 | Dieblereethene[1,1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                     |           |       |
| 30-005 | 30-3045  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | o   | IIN  | Dichioroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0                                     | UG/KG     | U     |
| 36-005 | 36-3044  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 26.005 | 26 2042  | ^                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | INI  | Dichloroothono[1,1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | E                                     |           |       |
| 30-005 | 30-3043  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | 111  | Dichioroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | Ua/Ka     | U     |
| 36-005 | 36-3042  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3042  | Ω                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene(1,1-)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | LIG/KG    | 11    |
| 00 000 | 00 00+L  | ě                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ě   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                     | 00,100    |       |
| 36-005 | 36-3041  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | iN   | Dichloroethene(1,1-)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | Ų     |
| 36-005 | 36-3040  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | iN   | Dichloroethene(1,1-)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U.    |
| 26.005 | 26.2020  | ō                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ē   | [N]  | Dichloroothone[1,1,1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                     | LIGMO     |       |
| 30-005 | 30-3039  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 36-005 | 36-3038  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3037  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | LIG/KG    |       |
| 00 000 | 00 0007  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                     | UU/RU     |       |
| 36-005 | 36-3036  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3035  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1, 1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6                                     | LIG/KG    | 11    |
| 00 000 | 00 0000  | ,<br>,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | č   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                     | U G // CG | ŭ     |
| 36-005 | 36-3034  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36-005 | 36-3034  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     |       |
| 00 000 | 00 0000  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      | Disting of a l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | UCAC      |       |
| 36-005 | 36-3026  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 25                                    | UG/KG     | U     |
| 36-005 | 36-3025  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethenel1.1-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                                     | UG/KG     | U     |
| 26 005 | 26 2004  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e e | INI  | Dichlorocthono[1,1,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                     |           |       |
| 30-005 | 30-3024  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ö   | IIN  | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ö                                     | UG/KG     | U     |
| 36-005 | 36-3023  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | U     |
| 36.005 | 36 3033  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | INI  | Dichloroethono[1,1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                     | LIG/KC    |       |
| 30-005 | 30-3022  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0   | IIN  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D                                     | 00/KG     | U     |
| 36-005 | 36-3021  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | υ     |
| 36,005 | 36.3030  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | INI  | Dichloroethano[1,1]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ē                                     | LIG/KC    |       |
| 30-005 | 30-3020  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | D   | HN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | b                                     | UG/KG     | U     |
| 36-005 | 36-3019  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | υ     |
| 36-005 | 36.2019  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A   | INI  | Dichloroethene[1,1-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     |           |       |
| 30-005 | 00-0010  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5   | 11.1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | U                                     | Juna      | U     |
| 36-005 | 36-3018  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[1,1-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                     | UG/KG     | υ     |
| 36-005 | 36-3051  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethenelcis-1 2-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                                     | UG/KG     | 11    |
| 00 000 | 00 0001  | Š                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5   |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                                     |           |       |
| 36-005 | 36-3050  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[cis-1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                     | UG/KG     | U     |
| 36-005 | 36-3050  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[cis-1.2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                     | UG/KG     | 11    |
| 26 005 | 26 2040  | č                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | č   | 11   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | · · · · · · · · · · · · · · · · · · · | UOMO      |       |
| 30-005 | 36-3049  | U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[cis-1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                     | UG/KG     | U     |
| 36-005 | 36-3048  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6   | IN   | Dichloroethene[cis-1,2-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6                                     | UG/KG     | U     |

| 36 005 | 36-3047  | 0 | 6   | <b>ENI</b> | Dichloroethenelcis, 1, 2, 1       | e      | UG/KG   | 11    |
|--------|----------|---|-----|------------|-----------------------------------|--------|---------|-------|
| 00-003 | 00-0047  | 0 | 0   |            | Dictributerine (dis-1,2-)         | 0      |         | ŭ     |
| 36-005 | 36-3046  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36-005 | 36-3045  | 0 | 6   | IN         | Dichloroethene(cis-1,2-)          | 6      | UG/KG   | U     |
| 36-005 | 36-3044  | 0 | 6   | IN         | Dichloroethenelcis-1.2-1          | 6      | LIG/KG  | Ð     |
| 30-003 | 30-30-44 | 0 | 0   | 11.5       | Dictionoetherie[cia-1,2-]         | 0      | UQ/RQ   |       |
| 36-005 | 36-3043  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 5      | UG/KG   | U     |
| 36-005 | 36-3042  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36.005 | 26-2042  | 0 | 6   | INI        | Dichloroethenelcis-1.2-1          | 5      | LIG/KG  |       |
| 30-005 | 30-3042  | 0 | 0   | IN         | Dichloroethene[cis-1,2-]          | 5      | Udika   |       |
| 36-005 | 36-3041  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 5      | UG/KG   | U     |
| 36-005 | 36-3040  | 0 | 6   | IN         | Dichloroethene[cis-1.2-1          | 5      | UG/KG   | U     |
| 00 000 | 00 0000  | ő | Č   | 1.1        | Dichlereethene[eis 1.0.]          | 5      |         | ŭ     |
| 36-005 | 30-3039  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 5      | UG/KG   | 0     |
| 36-005 | 36-3038  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36-005 | 36-3037  | 0 | 6   | IN         | Dichloroethenelcis-1.2-1          | 5      | UG/KG   | 11    |
| 30-003 | 00-0007  | 0 | 0   |            |                                   | 5      | UQ/KQ   |       |
| 36-005 | 36-3036  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36-005 | 36-3035  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 26-005 | 36-2024  | 0 | 6   | iNI        | Dichloroethene(cis-1,2-)          | 6      | LIG/KG  | ū     |
| 30-005 | 30-3034  | 0 | 0   | 111        | Dichloroethene[cis-1,2-]          | 0      | Udika   | 0     |
| 36-005 | 36-3034  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 5      | UG/KG   | U     |
| 36-005 | 36-3026  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 25     | UG/KG   | U     |
| 36-005 | 26-2025  | 0 | 6   | IN         | Dichloroethenelcis-1.2-1          | 5      | LIG/KG  |       |
| 30-005 | 30-3023  | 0 | 0   |            | Dichioroethene[ci3-1,2-]          | 5      | Junita  | 0     |
| 36-005 | 36-3024  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36-005 | 36-3023  | 0 | 6   | IN         | Dichloroethene[cis-1.2-]          | 6      | UG/KG   | U     |
| 26 005 | 26 2022  | - | ē   | INI        | Dichloroothono[cio 1.2.]          | 6      |         |       |
| 30-005 | 30-3022  | 0 | 0   | IIN        | Dichloroethene[cis-1,2-]          | o      | UG/KG   | 0     |
| 36-005 | 36-3021  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36-005 | 36-3020  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | LIG/KG  |       |
| 00-000 | 00 0020  | ě | 0   |            |                                   | ŏ      |         |       |
| 36-005 | 36-3019  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36-005 | 36-3018  | 0 | 6   | IN         | Dichloroethene[cis-1,2-]          | 6      | UG/KG   | U     |
| 36-005 | 36-3018  | 0 | 6   | IN         | Dichloroethene[cis-1.2-]          | 6      | LIG/KG  |       |
| 30-005 | 30-3010  | 0 | 0   | UN .       | Dichiordemene[cis-1,2-]           | 0      | UG/KG   | U     |
| 36-005 | 36-3051  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 5      | UG/KG   | U     |
| 36-005 | 36-3050  | 0 | 6   | IN         | Dichloroetheneltrans-1.2-1        | 6      | UG/KG   | U     |
| 26.005 | 26 2050  | 0 | 6   | INI        | Diobloresthese(trans. 1.2.)       | 6      | LIGIKO  |       |
| 30-005 | 30-3050  | 0 | 0   | IIN        | Dichloroethene[tians-1,2-]        | 0      | 0G/KG   | U     |
| 36-005 | 36-3049  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 6      | UG/KG   | υ     |
| 36-005 | 36-3048  | 0 | 6   | iN         | Dichloroethene[trans-1.2-]        | 6      | UG/KG   | U     |
| 26.005 | 26 2047  | 0 | ē   | INI        | Dichlorenthene(trans 1.9.)        | 6      |         | ň     |
| 30-005 | 30-304/  | 0 | 0   | IIN        | Dichloroethene[trans-1,2-]        | 0      | UG/KG   | 0     |
| 36-005 | 36-3046  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 6      | UG/KG   | U     |
| 36-005 | 36-3045  | 0 | 6   | IN         | Dichloroethene(trans-1.2-)        | 6      | UG/KG   | U U   |
| 20 000 | 26 2044  | õ | Č.  | 161        | Disblossethere(trans 1.0.)        | c<br>c |         | ŭ     |
| 30-005 | 30-3044  | 0 | 0   | IIN        | Dichioroethene(trans-1,2-)        | o      | UG/KG   | U     |
| 36-005 | 36-3043  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 5      | UG/KG   | υ     |
| 36-005 | 36-3042  | 0 | 6   | IN         | Dichloroetheneltrans-1 2-1        | 6      | LIG/KG  |       |
| 00 000 | 00 00 42 | ő | č   | 10.4       | Dishlaratha a fuana 1,2 j         | 0      | Uanca   | ŭ     |
| 36-005 | 36-3042  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 5      | UG/KG   | U     |
| 36-005 | 36-3041  | 0 | 6   | IN         | Dichloroethene[trans-1.2-]        | 5      | UG/KG   | U     |
| 36-005 | 36-3040  | 0 | 6   | IN         | Dichloroetheneltrans-1.2-1        | 5      | LIG/KG  |       |
| 30-003 | 30-30-0  | 0 | 0   |            | Dictitoroeuterie(trans-1,2-)      | 5      | UU/KG   | U     |
| 36-005 | 36-3039  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 5      | UG/KG   | υ     |
| 36-005 | 36-3038  | 0 | 6   | IN         | Dichloroethene(trans-1.2-)        | 6      | UG/KG   | 11    |
| 26.005 | 26 2027  | 0 | e e | INI        | Dichloreethone(trong 1.2.)        | -      |         |       |
| 30-005 | 30-3037  | 0 | 0   | IIN        | Dichloroethene[trans-1,2-]        | 5      | UG/KG   | U     |
| 36-005 | 36-3036  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 6      | UG/KG   | U     |
| 36-005 | 36-3035  | 0 | 6   | IN         | Dichloroethene(trans-1.2-)        | 6      | UG/KG   |       |
| 00 000 | 00 0000  | ő | č   | 16.1       |                                   | ů<br>o | LIGIKO  | ŭ     |
| 36-005 | 36-3034  | U | ю   | IN         | Dichloroethene(trans-1,2-)        | 6      | UG/KG   | 0     |
| 36-005 | 36-3034  | 0 | 6   | IN         | Dichloroethene(trans-1,2-)        | 5      | UG/KG   | U     |
| 26.005 | 36-2026  | 0 | 6   | INI        | Dichloroetheneltrans-1.2-1        | 25     | UG/KG   | . iii |
| 30-003 | 00-0020  | 0 | 0   | 115        | Dicitioroethene(trans-1,2-)       | 25     | UG/KG   | U     |
| 36-005 | 36-3025  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 5      | UG/KG   | U     |
| 36-005 | 36-3024  | 0 | 6   | IN         | Dichloroetheneltrans-1.2-1        | 6      | UG/KG   | 11    |
| 20 005 | 06 0000  | 0 | č   | 183        | Dichlerenthensitrens 1.0.1        | °,     | UOWO    | ŭ     |
| 30-005 | 30-3023  | U | 0   | IIN        | Dichloroethene(trans-1,2-j        | 0      | UG/KG   | U     |
| 36-005 | 36-3022  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 6      | UG/KG   | U     |
| 36-005 | 36-3021  | 0 | 6   | IN         | Dichloroetheneltrans-1 2-1        | 6      | UG/KG   | 11    |
| 00 000 | 00 0000  | õ | õ   |            | Distilare sthere (trans 1,2)      | ů<br>o | UC/KO   | Ň     |
| 30-005 | 30-3020  | U | Ö   | IN         | Dicitioroethene(trans-1,2-)       | b      | UG/KG   | U     |
| 36-005 | 36-3019  | 0 | 6   | IN         | Dichloroethene[trans-1,2-]        | 6      | UG/KG   | υ     |
| 36-005 | 36-3018  | 0 | 6   | IN         | Dichloroetheneitrans-1 2-1        | 6      | LIG/KG  |       |
| 00 000 | 00 0010  | ž |     | 10 1       |                                   | 0      |         |       |
| 36-005 | 36-3018  | 0 | 6   | IN         | Dichloroethene(trans-1,2-)        | 6      | UG/KG   | U     |
| 36-005 | 36-3051  | 0 | 6   | IN         | Dichlorophenol[2.4-]              | 350    | UG/KG   | U     |
| 36-005 | 36-3050  | 0 | 6   | IN         | Dichiorophenol[2.4-]              | 360    | UG/KG   | - ii  |
| 30-005 | 30-3050  | U | 0   | IIN        | Dichlorophenol(2,4-)              | 360    | UG/KG   | 0     |
| 36-005 | 36-3050  | 0 | 6   | IN         | Dichlorophenol[2,4-]              | 350    | UG/KG   | U     |
| 36-005 | 36-3049  | 0 | 6   | IN         | Dichlorophenol[2,4-1              | 340    | UG/KG   | LI I  |
| 26 005 | 26 2040  | Ň | Ē   | 161        | Dichlerenhonel <sup>1</sup> 2 4 1 | 260    | UG/KC   |       |
| 30-005 | 30-3040  | U | 0   | 11N        | Dichlorophenol[2,4-]              | 300    | UG/KG   | Ų     |
| 36-005 | 36-3047  | 0 | 6   | IN         | Dichlorophenol[2,4-]              | 390    | UG/KG   | U     |
| 36-005 | 36-3046  | n | 6   | IN         | Dichlorophenol <sup>[2</sup> 4-1  | 360    |         |       |
| 00-000 | 00-0040  | 0 | 6   |            |                                   | 500    |         |       |
| 36-005 | 36-3045  | 0 | 6   | IN         | Dichlorophenol[2,4-]              | 380    | UG/KG   | U     |
| 36-005 | 36-3044  | 0 | 6   | IN         | Dichlorophenol[2.4-]              | 380    | UG/KG   | u     |
| 26 005 | 26.2042  | - | Ē   | IN         | Dichlorophone 12 4 1              | 200    | LIGIKO  |       |
| 30-005 | 30-3043  | U | D   | IIN        | Dichlorophenol[2,4-]              | 300    | UG/KG   | U     |
| 36-005 | 36-3042  | 0 | 6   | IN         | Dichlorophenol[2,4-]              | 350    | UG/KG   | U     |
| 36-005 | 36-3042  | n | 6   | IN         | Dichloronhenoli? 4-1              | 340    | UG/KG   | 11    |
| 00-000 | 00.0042  |   |     | 11.4       | Dishlasakaa (2.4.)                | 040    | Uarra   |       |
| 36-005 | 36-3041  | 0 | 6   | IN         | Dichlorophenol[2,4-]              | 350    | UG/KG   | U     |
| 36-005 | 36-3040  | 0 | 6   | IN         | Dichlorophenol[2,4-]              | 350    | UG/KG   | U     |
| 36-005 | 36-2020  | ñ | Ē   | INI        | Dichlorophonol(2.4.)              | 240    | LIGIKO  | ň     |
| 30-005 | 30-3039  | U | 0   | IFN        | Dichlorophenol[2,4-]              | 340    | UG/KG   | U     |
| 36-005 | 36-3038  | 0 | 6   | IN         | Dichlorophenol[2,4-]              | 360    | UG/KG   | υ     |
| 36-005 | 36-3037  | 0 | 6   | IN         | Dichlorophenol(2.4-)              | 350    | LIG/KG  | 11    |
| 00 000 | 00 000,  | v | •   |            |                                   | 000    | o an Ca | 0     |

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|        |          |     | _      |           |                         | 0.40   | 110/1/0 |      |
|--------|----------|-----|--------|-----------|-------------------------|--------|---------|------|
| 36-005 | 36-3036  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 340    | UG/KG   | U    |
| 36-005 | 36-3035  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 350    | UG/KG   | U    |
| 36-005 | 36-3034  | 0   | 6      | IN        | Dichlorophenol[2.4-]    | 350    | UG/KG   | U U  |
| 30-005 | 00-0004  | 0   | 0      |           | Bishlesephenel[2,4]     | 250    | LIGIKO  | Ŭ    |
| 36-005 | 36-3034  | 0   | 6      | IN        | Dichiorophenol[2,4-]    | 350    | UG/KG   | U    |
| 36-005 | 36-3026  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 140000 | UG/KG   | U    |
| 36-005 | 36-3025  | n   | 6      | IN        | Dichlorophenol[2 4-1    | 360    | UG/KG   | U    |
| 00 000 | 00 0004  | õ   | e<br>e | IN I      | Disblerenbenel(2,4.)    | 400    | LIG/KG  | Ū.   |
| 30-005 | 30-3024  | U   | D      | IIN       | Dichlorophenol[2,4-]    | 400    | Uana    | U    |
| 36-005 | 36-3023  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 370    | UG/KG   | U    |
| 36-005 | 36-3022  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 360    | UG/KG   | U    |
| 20 000 | 20 2001  | -   | 6      | INI       | Dichlerenhenel(2,4,1    | 400    |         | É.   |
| 36-005 | 36-3021  | 0   | ю      | HN        | Dichiorophenol(2,4-)    | 400    | UG/KG   | U    |
| 36-005 | 36-3020  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 370    | UG/KG   | U    |
| 36-005 | 36-3019  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 370    | UG/KG   | U    |
| 26 005 | 26 2010  | 0   | ē      | INI       | Dichlerenhanel[2,4,1    | 250    | UG/KG   | Ŭ.   |
| 30-005 | 30-3010  | U   | o      | 1111      | Dichlorophenol[2,4-]    | 330    | UG/KG   | U    |
| 36-005 | 36-3018  | 0   | 6      | IN        | Dichlorophenol[2,4-]    | 370    | UG/KG   | 0    |
| 36-005 | 36-3051  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 5      | UG/KG   | U    |
| 20 005 | 26 2050  | 0   | ē      | INI       | Disbleropropage[1,2,]   | 6      | HGIKG   |      |
| 30-005 | 30-3050  | U   | 0      | IIN       | Dicilioroproparie[1,2-] | 0      | Udina   | 0    |
| 36-005 | 36-3050  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3049  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 26 005 | 26 2049  | 0   | 6      | INI       | Dichloropropage[1,2-]   | Ê      |         |      |
| 30-005 | 30-3040  | 0   | 0      | IN        | Dichloropropane[1,2-]   | 0      | UG/RG   | 0    |
| 36-005 | 36-3047  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3046  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3045  | 0   | 6      | IN        | Dichloropropage[1,2-]   | 6      | LIG/KG  | 11   |
| 30-003 | 30-3043  | 0   |        |           | Dichloropropane[1,2-]   | 0      |         |      |
| 36-005 | 36-3044  | 0   | ь      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3043  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3042  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 00-005 | 00.0042  | 0   | ě      | 1.1       | Bishlassessess[1.0.]    | e<br>e | UQ/KQ   | ŭ    |
| 36-005 | 36-3042  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3041  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 5      | UG/KG   | U    |
| 26-005 | 36-2040  | 0   | 6      | IN        | Dichloropropage[1,2-]   | 5      | LIG/KG  | - ii |
| 30-003 | 30-3040  | 0   | 0      |           | Dichloroproparie[1,2-]  | 5      | UQ/KQ   | ŭ    |
| 36-005 | 36-3039  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3038  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | υ    |
| 36-005 | 36-3037  | 0   | 6      | IN        | Dichloropropage[1,2-]   | 5      | UG/KG   |      |
| 30-003 | 00-0007  | 0   | 0      |           | Dichloropropane[1,2]    | 0      | UQ/KQ   |      |
| 36-005 | 36-3036  | 0   | 6      | IN        | Dichloropropane[1,2-j   | 6      | UG/KG   | U    |
| 36-005 | 36-3035  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3034  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U.   |
| 00 000 | 00 000 1 | 0   | č      | 151       | Dichlerepropenc[1,2]    | 5      | UC/KC   |      |
| 36-005 | 36-3034  | U   | ю      | IN        | Dichloropropane[1,2-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3026  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 25     | UG/KG   | υ    |
| 36-005 | 36-3025  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 5      | UG/KG   | U    |
| 00 000 | 00 0020  | 0   | ě      | INI       | Dichlerepropens[1,2]    | c c    | UC/KC   | ŭ    |
| 36-005 | 36-3024  | U   | ю      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3023  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | υ    |
| 36-005 | 36-3022  | 0   | 6      | IN        | Dichloropropage[1,2-]   | 6      | UG/KG   | 11   |
| 00 000 | 00 0022  | õ   | ő      | 111       | Dichlereprepane[1,2,]   | Č      | UCIKO   | ŭ    |
| 30-005 | 30-3021  | 0   | D      | IIN       | Dichloropropane[1,2-]   | 0      | UG/KG   | 0    |
| 36-005 | 36-3020  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3019  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | u    |
| 00 000 | 00 0010  | õ   | č      | 141       | Dichlerenrenene[1,2,]   | 6      |         | ŭ    |
| 30-005 | 30-3010  | U   | 0      | IN        | Dichioropropane[1,2-]   | б      | UG/KG   | U    |
| 36-005 | 36-3018  | 0   | 6      | IN        | Dichloropropane[1,2-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3051  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 5      | UG/KG   | U    |
| 26.005 | 26 2050  | 0   | 6      | INI       | Dichloropropano[1,2-]   | 6      | LIG/KG  | ň    |
| 30-005 | 30-3050  | 0   | 0      | ii N      | Dicinoropropane[1,3-]   | 0      | UG/KG   | U    |
| 36-005 | 36-3050  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3049  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | υ    |
| 36-005 | 36-2048  | Ō   | ē      | INI       | Dichloropropage[1,3-]   | 6      | LIG/KG  | ň    |
| 30-003 | 30-3040  | 0   | 0      |           | Dichiolopropane[1,5-]   | 0      | Uand    | 0    |
| 36-005 | 36-3047  | U   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3046  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3045  | 0   | 6      | IN        | Dichloropropage[1,3,1   | 6      | UG/KG   |      |
| 00-005 | 00-0040  | 0   | 0      |           | Dichleropioparis[1,0]   | 0      | Uand    |      |
| 36-005 | 36-3044  | 0   | ь      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3043  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3042  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | 11.1 |
| 00 000 | 00 00 12 | ů   | õ      |           | Dishlassana a s[1,0]    | -<br>- | UQ//CQ  |      |
| 36-005 | 36-3042  | U   | 6      | IN        | Dichloropropane[1,3-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3041  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 5      | UG/KG   | υ    |
| 36-005 | 36-3040  | 0   | 6      | IN        | Dichloropronane[1,3-]   | 5      | LIG/KG  |      |
| 26 005 | 00 0000  | õ   | č      | 18.1      | Dichleserenene(1,0)     | š      | UQ/KQ   | ŭ    |
| 30-005 | 30-3039  | 0   | o      | iiN       | Dichloropropane[1,3-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3038  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3037  | 0   | 6      | IN        | Dichloropropane[1.3-]   | 5      | UG/KG   | 11   |
| 36-00F | 36.3036  | -   | 6      | INI       | Dichloropropago[1,2,]   | e      | LIG/KC  |      |
| 30-005 | 30-3030  | v   | U      | UN<br>A S | Dictionationation       | D      | UG/KG   | U    |
| 36-005 | 36-3035  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | υ    |
| 36-005 | 36-3034  | 0   | 6      | IN        | Dichloropropane[1.3-]   | 6      | UG/KG   | U    |
| 26.005 | 26.2024  | -   | Ē      | IN        | Dichloropropono[1,2,1   | -<br>- | LIG/KC  |      |
| 30-005 | 30-3034  | U   | o      | IIN       | Dichloropropane[1,3-]   | 5      | UG/KG   | U    |
| 36-005 | 36-3026  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 25     | UG/KG   | U    |
| 36-005 | 36-3025  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 5      | UG/KG   | 0    |
| 26.005 | 26.2024  | 0   | Ē      | 151       | Dichloropropanel 1 2 3  | 0      |         |      |
| 30-005 | 30-3024  | U   | 0      | 11N       | Dichloropropane[1,3-]   | b      | UG/KG   | U    |
| 36-005 | 36-3023  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3022  | 0   | 6      | IN        | Dichloropropane[1.3-]   | 6      | UG/KG   | U    |
| 36-00F | 36-2021  | n n | 6      | INI       | Dichloropropono[1,2]    | 6      |         |      |
| 30-005 | 30-3021  | U   | U<br>L | HN III    | Dichloropropane[1,3-]   | D      | UG/KG   | U    |
| 36-005 | 36-3020  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |
| 36-005 | 36-3019  | 0   | 6      | IN        | Dichloropropane[1,3-]   | 6      | UG/KG   | U    |

| 00.005                               | 26 2010                                  | •           | e           | 18.1           | Disbloroproponal1 0 1                                                               | c           |                         | 11          |
|--------------------------------------|------------------------------------------|-------------|-------------|----------------|-------------------------------------------------------------------------------------|-------------|-------------------------|-------------|
| 36-005                               | 30-3018                                  | 0           | 0           | IIN            | Dichloropropane[1,3-]                                                               | 0           | UQ/KQ                   |             |
| 36-005                               | 36-3018                                  | 0           | 6           | IN             | Dichloropropane[1,3-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3051                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3050                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | υ           |
| 00-005                               | 00 0000                                  | 0           | 0           |                | Dishlarana a (0.0.1                                                                 | č           |                         | -           |
| 36-005                               | 30-3050                                  | 0           | o           | IIN            | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   |             |
| 36-005                               | 36-3049                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3048                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3047                                  | Ō           | 6           | IN             | Dichloropropage[2,2-]                                                               | 6           | UG/KG                   | U           |
| 30-005                               | 00-0047                                  | 0           | 0           | 11.1           | Dichloropropane[2,2-]                                                               | ő           | UG/KC                   |             |
| 36-005                               | 36-3046                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | D           | UG/KG                   | 0           |
| 36-005                               | 36-3045                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3044                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3043                                  | Ō           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | 11          |
| 30-003                               | 30-30-5                                  | 0           | 0           |                | Dichleropropanc(2,2)                                                                | ő           |                         |             |
| 36-005                               | 36-3042                                  | 0           | 6           | IN             | Dichloropropane[2,2-j                                                               | 0           | UG/KG                   | U           |
| 36-005                               | 36-3042                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3041                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3040                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | U           |
| 36 005                               | 26 2020                                  | ō           | Ē           | INI            | Dichloropropage[2,2-]                                                               | 5           | LIG/KG                  | 11          |
| 30-003                               | 00-0009                                  | 0           | 0           | 11.1           | Dichloropropane[2,2-]                                                               | 5           | UQIKO                   | ŭ           |
| 36-005                               | 36-3038                                  | 0           | ь           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | 0           |
| 36-005                               | 36-3037                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3036                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3035                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 26 005                               | 26.2024                                  | õ           | é           | INI            | Dichloropropane[2,2]                                                                | 6           | LIG/KG                  | Ū.          |
| 30-005                               | 30-3034                                  | 0           | 0           |                | Dichloroproparie[2,2-]                                                              | 0<br>F      | UCIKO                   |             |
| 36-005                               | 36-3034                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3026                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 25          | UG/KG                   | U           |
| 36-005                               | 36-3025                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3024                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | υ           |
| 00-005                               | 00 0024                                  | õ           | ě           | 151            | Dichloropropano[2,2]                                                                | 6           | UG/KG                   | ň           |
| 36-005                               | 30-3023                                  | 0           | 0           | 114            | Dichioropropane(2,2-)                                                               | 0           | UG/KG                   |             |
| 36-005                               | 36-3022                                  | 0           | 6           | IN             | Dichioropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3021                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3020                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3019                                  | Ó           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 26 005                               | 26 2018                                  | õ           | Ē           | INI            | Dichleropropane[2,2,]                                                               | 6           | UG/KG                   | ŭ           |
| 36-005                               | 30-3010                                  | 0           | 0           | IN             | Dichiolopiopane[2,2-]                                                               | 0           | UG/KG                   |             |
| 36-005                               | 36-3018                                  | 0           | 6           | IN             | Dichloropropane[2,2-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3051                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3050                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3050                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | υ           |
| 26-005                               | 36-3040                                  | õ           | e<br>e      | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | ň           |
| 30-005                               | 30-3049                                  | 0           | 0           | 114            | Bishlaranana (1,1-)                                                                 | 0           |                         |             |
| 36-005                               | 36-3048                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3047                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3046                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3045                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | υ           |
| 26 005                               | 26 2044                                  | õ           | 6           | IN             | Dichloropropono[1,1-]                                                               | Ē           | UG/KG                   |             |
| 30-005                               | 30-3044                                  | 0           | 0           |                |                                                                                     | 0           | UQ/KQ                   |             |
| 36-005                               | 36-3043                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3042                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3042                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3041                                  | 0           | 6           | IN             | Dichloropropenel 1, 1-1                                                             | 5           | UG/KG                   | U           |
| 00-005                               | 00 0041                                  | õ           | e<br>e      | IN             | Dichlerepropene[1,1]                                                                | Ē           |                         | ŭ           |
| 36-005                               | 36-3040                                  | 0           | 0           |                | Dichiotopropene[1,1-]                                                               | 5           | Udika                   |             |
| 36-005                               | 36-3039                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 5           | UG/KG                   | 0           |
| 36-005                               | 36-3038                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | υ           |
| 36-005                               | 36-3037                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 5           | UG/KG                   | υ           |
| 36-005                               | 36-3036                                  | Ο           | 6           | IN             | Dichloropropenel 1 1-1                                                              | 6           | UG/KG                   | U           |
| 00-005                               | 00,0000                                  | 0           | č           | 11.4           | Dichlerepropenc[1,1]                                                                | 6           | UC/KC                   | ŭ           |
| 30-005                               | 30-3035                                  | 0           | 0           | HN             | Dichiolopioperie[1,1-]                                                              | 0           | UG/KG                   |             |
| 36-005                               | 36-3034                                  | 0           | 6           | łN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3034                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 5           | UG/KG                   | U           |
| 36-005                               | 36-3026                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 25          | UG/KG                   | υ           |
| 36-005                               | 36-3025                                  | ñ           | â           | IN             | Dichloropropene[1,1-]                                                               | - 5         |                         |             |
| 00-005                               | 00-0020                                  | 0           | e o         | IN             | Dichlerepropene[1,1]                                                                | 6           | UG/KG                   |             |
| 30-005                               | 30-3024                                  | 0           | 0           | IIN            | Dichloropropene[1,14]                                                               | 8           | UG/KG                   |             |
| 36-005                               | 36-3023                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3022                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3021                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3020                                  | 0           | 6           | IN             | Dichloropropene(1,1-)                                                               | 6           | UG/KG                   | U           |
| 26 005                               | 26 2010                                  | õ           | ě           | 151            | Dichloropropono[1,1]                                                                | c c         |                         | ŭ           |
| 36-005                               | 30-3019                                  | U           | 0           |                | Dichloropropene(1,1-)                                                               | 8           |                         |             |
| 36-005                               | 36-3018                                  | 0           | 6           | IN             | Dicnioropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3018                                  | 0           | 6           | IN             | Dichloropropene[1,1-]                                                               | 6           | UG/KG                   | U           |
| 36-005                               | 36-3051                                  | 0           | 6           | IN             | Dichloropropene[cis-1,3-]                                                           | 5           | UG/KG                   | U           |
| 36-005                               | 36-3050                                  | Ō           | 6           | IN             | Dichloropropenei/cis-1.3-1                                                          | 6           | UG/KG                   | Ш           |
| 36.005                               | 26 2050                                  | õ           | Ê           | IN             |                                                                                     | 6           | UG/KG                   |             |
| 30-005                               | 00-0000                                  | U           | 0           | IN IN          | Dictionopropenetos-1,3-1                                                            | o<br>o      |                         |             |
| 36-005                               | 36-3049                                  | 0           | 6           | IN             | UICNIOropropene[CIS-1,3-]                                                           | 6           | UG/KG                   | U           |
| 36-005                               | 36-3048                                  | 0           | 6           | IN             | Dichloropropene[cis-1,3-]                                                           | 6           | UG/KG                   | υ           |
| 00.005                               | 00.0047                                  | 0           | 6           | IN             | Dichloropropene[cis-1,3-]                                                           | 6           | UG/KG                   | U           |
| 36-005                               | 36-3047                                  | •           | -           |                |                                                                                     |             |                         |             |
| 36-005                               | 36-3047                                  | ñ           | 6           | IN             | Dichloropropenetcis-1.3-1                                                           | 6           | UG/KG                   | U           |
| 36-005                               | 36-3047<br>36-3046                       | 0           | 6           | IN             | Dichloropropene[cis-1,3-]                                                           | 6           | UG/KG                   | U           |
| 36-005<br>36-005<br>36-005           | 36-3047<br>36-3046<br>36-3045            | 0           | 6           | IN<br>IN       | Dichloropropene[cis-1,3-]<br>Dichloropropene[cis-1,3-]                              | 6           | UG/KG<br>UG/KG          | U<br>U<br>  |
| 36-005<br>36-005<br>36-005<br>36-005 | 36-3047<br>36-3046<br>36-3045<br>36-3044 | 0<br>0<br>0 | 6<br>6<br>6 | IN<br>IN<br>IN | Dichloropropene[cis-1,3-]<br>Dichloropropene[cis-1,3-]<br>Dichloropropene[cis-1,3-] | 6<br>6<br>6 | UG/KG<br>UG/KG<br>UG/KG | U<br>U<br>U |

W. Sec.

|                                                                                                            |                                                                                                                       |                                                |                                                     |                                         |                                                                                                                                                                                                                          |                                                                           |                                                                      | 1.1                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 36-005                                                                                                     | 36-3042                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3042                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1.3-]                                                                                                                                                                                                | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3041                                                                                                               | õ                                              | 6                                                   | IN                                      | Dichloropropenelcis-1.3-1                                                                                                                                                                                                | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3040                                                                                                               | õ                                              | ê                                                   | IN                                      | Dichloropropene[cis-1,2]                                                                                                                                                                                                 | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 30-005                                                                                                     | 30-3040                                                                                                               | 0                                              | 0                                                   |                                         | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 5                                                                         | UG/KC                                                                |                                                                                             |
| 36-005                                                                                                     | 36-3039                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 5                                                                         | UG/KG                                                                |                                                                                             |
| 36-005                                                                                                     | 36-3038                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3037                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3036                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropenelcis-1.3-1                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3035                                                                                                               | 0                                              | Ē                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | LIG/KG                                                               | 11                                                                                          |
| 00-005                                                                                                     | 00-0000                                                                                                               | 0                                              | č                                                   | 114                                     | Dichlerence and is 4.0.1                                                                                                                                                                                                 | 0                                                                         |                                                                      |                                                                                             |
| 36-005                                                                                                     | 36-3034                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3034                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3026                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 25                                                                        | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3025                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1.3-]                                                                                                                                                                                                | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 26.005                                                                                                     | 36-3024                                                                                                               | 0                                              | ē                                                   | IN                                      | Dichloropropene[cis_1,3_]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                |                                                                                             |
| 30-005                                                                                                     | 00-0024                                                                                                               | 0                                              | 0                                                   | 111                                     | Dichloropropene[cis-1,0-]                                                                                                                                                                                                | 0                                                                         |                                                                      |                                                                                             |
| 36-005                                                                                                     | 36-3023                                                                                                               | 0                                              | ь                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3022                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3021                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3020                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropenelcis-1.3-1                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36 005                                                                                                     | 26-2010                                                                                                               | õ                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                |                                                                                             |
| 30-005                                                                                                     | 30-3019                                                                                                               | 0                                              | 0                                                   | 11.9                                    | Dichloropropene[cis-1,0-]                                                                                                                                                                                                | 0                                                                         | UQ/KQ                                                                |                                                                                             |
| 36-005                                                                                                     | 36-3018                                                                                                               | 0                                              | ь                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3018                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[cis-1,3-]                                                                                                                                                                                                | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3051                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3050                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1.3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | υ                                                                                           |
| 26 005                                                                                                     | 26 2050                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans_1.3-]                                                                                                                                                                                              | Ē                                                                         | LIG/KG                                                               |                                                                                             |
| 36-005                                                                                                     | 30-3030                                                                                                               | 0                                              | 0                                                   | 115                                     | Dichlosopopopoletena 1.2.1                                                                                                                                                                                               | 0                                                                         |                                                                      | ŭ                                                                                           |
| 36-005                                                                                                     | 36-3049                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | 0                                                                                           |
| 36-005                                                                                                     | 36-3048                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3047                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36.005                                                                                                     | 36-3046                                                                                                               | Ô                                              | â                                                   | IN                                      | Dichloropropene[trans-1_3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U.                                                                                          |
| 30-005                                                                                                     | 00-0040                                                                                                               | ě                                              | č                                                   | 11.1                                    | Dishlarapropono[trans 1.2.]                                                                                                                                                                                              | e e                                                                       | UG/KG                                                                | ŭ                                                                                           |
| 36-005                                                                                                     | 36-3045                                                                                                               | 0                                              | 0                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 8                                                                         |                                                                      |                                                                                             |
| 36-005                                                                                                     | 36-3044                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3043                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3042                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene(trans-1.3-)                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | υ                                                                                           |
| 26.005                                                                                                     | 36-3042                                                                                                               | Ō                                              | 6                                                   | IN                                      | Dichloropropeneitrans-1.3-1                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | U II                                                                                        |
| 30-005                                                                                                     | 30-30-42                                                                                                              | 0                                              | 0                                                   | 114                                     | Dichlosopropene(trans 1,0 )                                                                                                                                                                                              | 5                                                                         |                                                                      | ŭ                                                                                           |
| 36-005                                                                                                     | 36-3041                                                                                                               | U                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | 0                                                                                           |
| 36-005                                                                                                     | 36-3040                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3039                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | υ                                                                                           |
| 36-005                                                                                                     | 36-3038                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1.3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 26 005                                                                                                     | 26 2027                                                                                                               | 0                                              | Ē                                                   | IN                                      | Dichloropropene[trans_1 3-]                                                                                                                                                                                              | 5                                                                         | LIG/KG                                                               | . ii                                                                                        |
| 36-005                                                                                                     | 30-3037                                                                                                               | 0                                              | 0                                                   | 11 N                                    | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 5                                                                         |                                                                      |                                                                                             |
| 36-005                                                                                                     | 36-3036                                                                                                               | 0                                              | 6                                                   | IN                                      | Dicnioropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3035                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3034                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | υ                                                                                           |
| 36-005                                                                                                     | 36-3034                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropeneltrans-1.3-1                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 00 005                                                                                                     | 26 2026                                                                                                               | õ                                              | é                                                   | 16.1                                    | Dishlerepropono[trans 1,3]                                                                                                                                                                                               | 25                                                                        | UG/KG                                                                |                                                                                             |
| 36-005                                                                                                     | 30-3020                                                                                                               | 0                                              | 0                                                   | IIN                                     | Dichioropropene[trans-1,3-]                                                                                                                                                                                              | 25                                                                        |                                                                      |                                                                                             |
| 36-005                                                                                                     | 36-3025                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 5                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3024                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3023                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3022                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropeneltrans-1 3-1                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 20 000                                                                                                     | 26 2021                                                                                                               | õ                                              | Ē                                                   | INI                                     | Dichloropropono[trans 1.2.]                                                                                                                                                                                              | 6                                                                         | LIG/KG                                                               |                                                                                             |
| 30-005                                                                                                     | 30-3021                                                                                                               | 0                                              | 0                                                   | IIN III                                 | Dichioropropene[itans-1,3-]                                                                                                                                                                                              | 0                                                                         |                                                                      |                                                                                             |
| 36-005                                                                                                     | 36-3020                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3019                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3018                                                                                                               | 0                                              | 6                                                   | IN                                      | Dichloropropene[trans-1,3-]                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3018                                                                                                               | Ô                                              | 6                                                   | IN                                      | Dichloronroneneltrans-1.3-1                                                                                                                                                                                              | 6                                                                         | UG/KG                                                                | U I                                                                                         |
| 26 005                                                                                                     | 26 2051                                                                                                               | õ                                              | ě                                                   | INI                                     | Diothylabthalata                                                                                                                                                                                                         | 350                                                                       |                                                                      | ŭ                                                                                           |
| 30-005                                                                                                     | 30-3051                                                                                                               | 0                                              | 0                                                   |                                         |                                                                                                                                                                                                                          | 350                                                                       | UG/KG                                                                |                                                                                             |
| 36-005                                                                                                     | 36-3050                                                                                                               | 0                                              | 6                                                   | IN                                      | Dietnyiphthalate                                                                                                                                                                                                         | 360                                                                       | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3050                                                                                                               | 0                                              | 6                                                   | IN                                      | Diethylphthalate                                                                                                                                                                                                         | 350                                                                       | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3049                                                                                                               | 0                                              | 6                                                   | IN                                      | Diethylphthalate                                                                                                                                                                                                         | 340                                                                       | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3048                                                                                                               | 0                                              | 6                                                   | IN                                      | Diethylphthalate                                                                                                                                                                                                         | 360                                                                       | UG/KG                                                                | U                                                                                           |
| 26 005                                                                                                     | 26 2047                                                                                                               | ň                                              | 6                                                   | IN                                      | Diethylphthalate                                                                                                                                                                                                         | 200                                                                       | UG/KG                                                                | ň                                                                                           |
| 30-005                                                                                                     | 30-3047                                                                                                               | 0                                              | 0                                                   |                                         | Diethyphthalate                                                                                                                                                                                                          | 390                                                                       | UG/KG                                                                |                                                                                             |
| 36-005                                                                                                     | 36-3046                                                                                                               | 0                                              | 6                                                   | IN                                      | Dietnyiphthalate                                                                                                                                                                                                         | 360                                                                       | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3045                                                                                                               | 0                                              | 6                                                   | IN                                      | Diethylphthalate                                                                                                                                                                                                         | 380                                                                       | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 36-3044                                                                                                               | 0                                              | 6                                                   | IN                                      | Diethylphthalate                                                                                                                                                                                                         | 380                                                                       | UG/KG                                                                | U                                                                                           |
| 36-005                                                                                                     | 26 2042                                                                                                               | 0                                              | 6                                                   | IN                                      | Diethvinhthalate                                                                                                                                                                                                         | 360                                                                       | UG/KG                                                                | U                                                                                           |
| 26 005                                                                                                     |                                                                                                                       | •                                              | •                                                   |                                         | Diothylphthalato                                                                                                                                                                                                         | 250                                                                       | LIG/KG                                                               | , ii                                                                                        |
|                                                                                                            | 36-3043                                                                                                               | 0                                              | 6                                                   | JNI                                     |                                                                                                                                                                                                                          | 000                                                                       | JUNA                                                                 |                                                                                             |
| 30-005                                                                                                     | 36-3043                                                                                                               | 0                                              | 6                                                   | IN                                      | Diethylphinalate                                                                                                                                                                                                         | <b></b>                                                                   | 110/1/20                                                             |                                                                                             |
| 36-005                                                                                                     | 36-3043<br>36-3042<br>36-3042                                                                                         | 0<br>0                                         | 6<br>6                                              | IN<br>IN                                | Diethylphthalate                                                                                                                                                                                                         | 340                                                                       | UG/KG                                                                | Ū                                                                                           |
| 36-005<br>36-005<br>36-005                                                                                 | 36-3043<br>36-3042<br>36-3042<br>36-3041                                                                              | 0<br>0<br>0                                    | 6<br>6<br>6                                         | IN<br>IN<br>IN                          | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                                                                                                                                 | 340<br>350                                                                | UG/KG<br>UG/KG                                                       | บ<br>บ                                                                                      |
| 36-005<br>36-005<br>36-005                                                                                 | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040                                                                   | 0<br>0<br>0<br>0                               | 6<br>6<br>6                                         | IN<br>IN<br>IN<br>IN                    | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                                                                                                                                 | 340<br>350<br>350                                                         | UG/KG<br>UG/KG<br>UG/KG                                              | บ<br>บ<br>บ                                                                                 |
| 36-005<br>36-005<br>36-005<br>36-005                                                                       | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039                                                        | 0<br>0<br>0                                    | 6<br>6<br>6<br>6                                    | IN<br>IN<br>IN<br>IN                    | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                                                                                                             | 340<br>350<br>350<br>340                                                  | UG/KG<br>UG/KG<br>UG/KG                                              | บ<br>บ<br>บ<br>เ                                                                            |
| 36-005<br>36-005<br>36-005<br>36-005                                                                       | 36-3043<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>26-2039                                                        | 0<br>0<br>0                                    | 6<br>6<br>6<br>6                                    | IN<br>IN<br>IN<br>IN                    | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                                                                                         | 340<br>350<br>350<br>340                                                  | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                     |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                   | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3039                                             | 0<br>0<br>0<br>0                               | 6<br>6<br>6<br>6<br>6                               | IN<br>IN<br>IN<br>IN<br>IN              | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                                                                                         | 340<br>350<br>350<br>340<br>360                                           | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                     |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                   | 36-3043<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037                                             | 0<br>0<br>0<br>0<br>0<br>0                     | 6<br>6<br>6<br>6<br>6<br>6                          |                                         | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                                                 | 340<br>350<br>350<br>340<br>360<br>350                                    | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                            |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                         | 36-3043<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036                                  | 0<br>0<br>0<br>0<br>0<br>0                     | 6<br>6<br>6<br>6<br>6<br>6                          |                                         | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                             | 340<br>350<br>350<br>340<br>360<br>350<br>340                             | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                   | ບ<br>ນ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ                                              |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                     | 36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035                       |                                                | 6<br>6<br>6<br>6<br>6<br>6<br>6                     |                                         | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                             | 340<br>350<br>350<br>340<br>360<br>350<br>340<br>350                      | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          | ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ<br>ບ |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                               | 36-3043<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3038<br>36-3036<br>36-3035<br>36-3034            |                                                | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6      |                                         | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                                             | 340<br>350<br>340<br>360<br>350<br>340<br>350<br>350                      | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                     | 36-3043<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034            |                                                | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6 |                                         | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate                                         | 340<br>350<br>350<br>340<br>360<br>350<br>340<br>350<br>350<br>350        | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG          |                                                                                             |
| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005 | 36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6           | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ | Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate<br>Diethylphthalate | 340<br>350<br>350<br>340<br>360<br>350<br>340<br>350<br>350<br>350<br>350 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG | ບນບບບບບບບບ<br>ບບບບບບບບບ                                                                     |

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|--------------------------------------|-----------------------------------------------------|-------------|-------------|----------------------|--------------------------------------------------------------------------------------------|-------------------|-------------------------|-------------|
| 36-005                               | 36-3025                                             | 0           | 6           | IN                   | Diethylphthalate                                                                           | 360               | UG/KG                   | U           |
| 36-005                               | 36-3024                                             | 0           | 6           | IN                   | Diethviphthalate                                                                           | 400               | UG/KG                   | υ           |
| 26 005                               | 36.2022                                             | Ő           | 6           | IN I                 | Diethviphthalata                                                                           | 370               | UG/KG                   |             |
| 30-005                               | 30-3023                                             | 0           | 0           | IIN                  | Dietryphilialate                                                                           | 370               | UCIKO                   |             |
| 36-005                               | 36-3022                                             | 0           | 6           | IN                   | Diethylphthalate                                                                           | 360               | UG/KG                   | U           |
| 36-005                               | 36-3021                                             | 0           | 6           | IN                   | Diethylphthalate                                                                           | 400               | UG/KG                   | U           |
| 36-005                               | 36-3020                                             | 0           | 6           | IN                   | Diethylohthalate                                                                           | 370               | UG/KG                   | υ           |
| 00 000                               | 26 2010                                             | 0           | ç           | 11 1                 | Distinuization                                                                             | 270               | LIG/KG                  |             |
| 30-005                               | 30-3019                                             | 0           | 0           | IN                   | Dietnyiphthalate                                                                           | 370               | UQ/KG                   |             |
| 36-005                               | 36-3018                                             | 0           | 6           | IN                   | Diethylphthalate                                                                           | 350               | UG/KG                   | U           |
| 36-005                               | 36-3018                                             | 0           | 6           | IN                   | Diethylphthalate                                                                           | 370               | UG/KG                   | U           |
| 26 005                               | 36 3051                                             | õ           | ē           | 15.1                 | Dimethyl Phthalato                                                                         | 350               |                         |             |
| 36-005                               | 30-3051                                             | 0           | 0           | IIN                  | Dimethyl Frithalate                                                                        | 350               | UQ/KG                   |             |
| 36-005                               | 36-3050                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 360               | UG/KG                   | U           |
| 36-005                               | 36-3050                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | U           |
| 26,005                               | 26-2040                                             | Ō           | 6           | iNI                  | Dimethyl Phthalate                                                                         | 340               |                         |             |
| 30-003                               | 00-00-9                                             | 0           | 0           |                      | Dimetry Philadate                                                                          | 010               | Ugika                   |             |
| 36-005                               | 36-3048                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 360               | UG/KG                   | U           |
| 36-005                               | 36-3047                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 390               | UG/KG                   | U           |
| 36-005                               | 36-3046                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 360               | UG/KG                   | U           |
| 26 005                               | 26 2046                                             | Ō           | Ē           | i N I                | Dimothyl Phthalate                                                                         | 380               | UG/KG                   | 11          |
| 30-005                               | 30-3045                                             | 0           | 0           | 11 1                 | Dimethyl i minalate                                                                        | 880               | UQ/KQ                   |             |
| 36-005                               | 36-3044                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 380               | UG/KG                   | υ           |
| 36-005                               | 36-3043                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 360               | UG/KG                   | U           |
| 36-005                               | 36-3042                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | U           |
| 30-005                               | 00-0042                                             | 0           | 0           | 111                  | Dimethyl Philade                                                                           | 240               | UC/KG                   | ŭ           |
| 36-005                               | 36-3042                                             | 0           | D           | IN                   | Dimethyl Phthalate                                                                         | 340               | UG/KG                   | 0           |
| 36-005                               | 36-3041                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | U           |
| 36-005                               | 36-3040                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | υ           |
| 26 005                               | 36-2020                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 340               | UG/KG                   | 11          |
| 30-005                               | 30-3039                                             | 0           | 0           |                      | Dimensionalate                                                                             | 040               |                         |             |
| 36-005                               | 36-3038                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 360               | UG/KG                   | U           |
| 36-005                               | 36-3037                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | U           |
| 36-005                               | 36-3036                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 340               | UG/KG                   | U           |
| 00 000                               | 00 0000                                             | õ           | č           | INI                  | Dimothyl Phthelate                                                                         | 250               | NCKC                    |             |
| 36-005                               | 30-3035                                             | 0           | D           | IN                   | Dimethyl Phinalate                                                                         | 350               | UG/KG                   | U           |
| 36-005                               | 36-3034                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | U           |
| 36-005                               | 36-3034                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | U           |
| 36-005                               | 36-3026                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 140000            | UG/KG                   |             |
| 30-005                               | 00-0020                                             | ů<br>o      | 0           | 10                   | Dimethyl Phthelate                                                                         | 140000            |                         | ŭ           |
| 36-005                               | 36-3025                                             | U           | 6           | IN                   | Dimetnyi Phthalate                                                                         | 360               | UG/KG                   | U           |
| 36-005                               | 36-3024                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 400               | UG/KG                   | υ           |
| 36-005                               | 36-3023                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 370               | UG/KG                   | U           |
| 26 005                               | 26.2022                                             | Ő.          | Ē           | INL                  | Dimethyl Phthalate                                                                         | 360               | UG/KG                   |             |
| 30-005                               | 30-3022                                             | 0           | 0           | IIN IIN              | Dimetry Fridalate                                                                          | 300               | UG/KG                   |             |
| 36-005                               | 36-3021                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 400               | UG/KG                   | U           |
| 36-005                               | 36-3020                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 370               | UG/KG                   | υ           |
| 36-005                               | 36-3019                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 370               | UG/KG                   | U           |
| 26 005                               | 26 2019                                             | õ           | ē           | INI                  | Dimothyl Bhthalata                                                                         | 250               |                         | ň           |
| 36-005                               | 30-3018                                             | 0           | 0           | IN                   | Dimethyl Phthalate                                                                         | 350               | UG/KG                   | 0           |
| 36-005                               | 36-3018                                             | 0           | 6           | IN                   | Dimethyl Phthalate                                                                         | 370               | UG/KG                   | U           |
| 36-005                               | 36-3051                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 350               | UG/KG                   | υ           |
| 36-005                               | 36-3050                                             | Ó           | 6           | IN                   | Dimethylphenol[2.4-1                                                                       | 360               | UG/KG                   |             |
| 00 005                               | 00 0000                                             | õ           | ő           | 1.1                  | Dimethylaboral(0,4.)                                                                       | 350               | UC/XO                   | ŭ           |
| 30-005                               | 30-3050                                             | 0           | ю           | IN                   | Dimethyiphenoi[2,4-j                                                                       | 350               | UG/KG                   | U           |
| 36-005                               | 36-3049                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 340               | UG/KG                   | U           |
| 36-005                               | 36-3048                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 360               | UG/KG                   | U           |
| 26 005                               | 26.2047                                             | 0           | 6           | IN                   | Dimethylphenol(2.4-1                                                                       | 300               |                         | . ŭ         |
| 36-005                               | 30-3047                                             | U           | 0           | IIN                  | Dimethylphenol(2,4-)                                                                       | 390               | UG/KG                   | U           |
| 36-005                               | 36-3046                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 360               | UG/KG                   | υ           |
| 36-005                               | 36-3045                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 380               | UG/KG                   | U           |
| 36-005                               | 36-3044                                             | 0           | 6           | IN                   | Dimethylphenol[2.4-]                                                                       | 380               | UG/KG                   | 11          |
| 00 005                               | 00 00 40                                            | ő           | č           | 114                  | Dimethylaboral(0,4)                                                                        | 860               | UQ/KQ                   |             |
| 36-005                               | 30-3043                                             | 0           | b           | IN                   | Dimethyiphenoi[2,4-]                                                                       | 360               | UG/KG                   | U           |
| 36-005                               | 36-3042                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 350               | UG/KG                   | U           |
| 36-005                               | 36-3042                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 340               | UG/KG                   | U           |
| 36.005                               | 26 2041                                             | 0           | e<br>e      | INI                  | Dimothylphonol[2,4,]                                                                       | 250               |                         |             |
| 00-005                               | 00-0041                                             | 0           | ~           | 11.1                 |                                                                                            | 330               |                         |             |
| 36-005                               | 36-3040                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 350               | UG/KG                   | U           |
| 36-005                               | 36-3039                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 340               | UG/KG                   | U           |
| 36-005                               | 36-3038                                             | 0           | 6           | IN                   | Dimethylphenol[2 4-]                                                                       | 360               | UG/KG                   | U           |
| 20 005                               | 00 0000                                             | 0           | ě           | IN I                 | Dimethylphonol[2,4]                                                                        | 250               | UC/KC                   | ŭ           |
| 30-005                               | 30-3037                                             | U           | 0           | HN                   | Dimetrypheno([2,4-]                                                                        | 350               | UG/KG                   | U           |
| 36-005                               | 36-3036                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 340               | UG/KG                   | U           |
| 36-005                               | 36-3035                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 350               | UG/KG                   | U           |
| 36-005                               | 36-3034                                             | 0           | 6           | IN                   | Dimethylphenol[2.4-]                                                                       | 350               | UG/KG                   |             |
| 30-005                               | 00-0004                                             | ő           | ő           |                      | Dimethylpheno(2,4-)                                                                        | 550               |                         |             |
| 36-005                               | 36-3034                                             | 0           | ь           | IIN                  | Dimetnyiphenoi[2,4-]                                                                       | 350               | UG/KG                   | U           |
| 36-005                               | 36-3026                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 140000            | UG/KG                   | U           |
| 36-005                               | 36-3025                                             | 0           | 6           | IN                   | Dimethylphenol[2.4-]                                                                       | 360               | UG/KG                   | υ           |
| 26 005                               | 36.3034                                             | 0           | Ē           | IN                   | Dimethylphenol[2,4,1                                                                       | 400               | LIG/KG                  |             |
| 30-005                               | 00-0024                                             | <u> </u>    | 0           |                      |                                                                                            | 400               |                         |             |
| 36-005                               | 36-3023                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 370               | UG/KG                   | U           |
| 36-005                               | 36-3022                                             | 0           | 6           | IN                   | Dimethylphenol[2.4-]                                                                       | 360               | UG/KG                   | U           |
| 26.005                               | 26.2021                                             | 0           | Ē           | IN                   | Dimethylphenol(2,4-1                                                                       | 400               |                         | ň           |
| 30-005                               | 30-3021                                             | 0           | 0           | IIN III              |                                                                                            | 400               | UG/KG                   | 0           |
| 36-005                               | 36-3020                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 370               | UG/KG                   | U           |
| 36-005                               | 36-3019                                             | 0           | 6           | IN                   | Dimethylphenol[2,4-]                                                                       | 370               | UG/KG                   | Ų           |
|                                      | 00.0010                                             |             |             |                      | Dimethylphonel[9, 4, ]                                                                     | 350               | LIG/KG                  | . ú         |
| 36-005                               | 36-3018                                             | 0           | 6           | INI                  |                                                                                            |                   |                         |             |
| 36-005                               | 36-3018                                             | 0           | 6           | IN                   | Dimethylphenol(2,4-)                                                                       | 000               | UC#C                    |             |
| 36-005<br>36-005                     | 36-3018<br>36-3018                                  | 0<br>0      | 6<br>6      | IN<br>IN             | Dimethylphenol[2,4-]                                                                       | 370               | UG/KG                   | Ŭ           |
| 36-005<br>36-005<br>36-005           | 36-3018<br>36-3018<br>36-3051                       | 0<br>0<br>0 | 6<br>6<br>6 | IN<br>IN<br>IN       | Dimethylphenol[2,4-]<br>Dimethylphenol[2,4-]<br>Di-n-butylphthalate                        | 370<br>350        | UG/KG<br>UG/KG          | U<br>U      |
| 36-005<br>36-005<br>36-005<br>36-005 | 36-3018<br>36-3018<br>36-3051<br>36-3050            | 0<br>0<br>0 | 6<br>6<br>6 | IN<br>IN<br>IN       | Dimethylphenol(2,4-)<br>Dimethylphenol(2,4-)<br>Di-n-butylphthalate<br>Di-n-butylphthalate | 370<br>350<br>360 | UG/KG<br>UG/KG<br>UG/KG | บ<br>บ<br>บ |
| 36-005<br>36-005<br>36-005<br>36-005 | 36-3018<br>36-3018<br>36-3051<br>36-3050<br>36-3050 | 0<br>0<br>0 | 6<br>6<br>6 | IN<br>IN<br>IN<br>IN | Dimethylphenol[2,4-]<br>Dimethylphenol[2,4-]<br>Di-n-butylphthalate<br>Di-n-butylphthalate | 370<br>350<br>360 | UG/KG<br>UG/KG<br>UG/KG | U<br>U<br>U |

£ 8.00

| 36-005 | 36-3049 | 0  | 6      | IN       | Di-n-butylphthalate           | 340    | UG/KG  | υ   |
|--------|---------|----|--------|----------|-------------------------------|--------|--------|-----|
| 36-005 | 36-3048 | 0  | 6      | IN       | Di-n-butylohthalate           | 370    | UG/KG  | υ   |
| 26 005 | 26 2047 | ő  | e<br>e | INI      | Di-n-buty/phthalato           | 200    | LIG/KG |     |
| 36-005 | 30-3047 | 0  | 0      | IIN      | Di-n-butylphthalate           | 390    | UG/KG  |     |
| 36-005 | 36-3046 | 0  | 6      | IN       | Di-n-butyiphthalate           | 460    | UG/KG  | U   |
| 36-005 | 36-3045 | 0  | 6      | IN       | Di-n-butylphthalate           | 380    | UG/KG  | U   |
| 36-005 | 36-3044 | 0  | 6      | IN       | Di-n-butylphthalate           | 380    | UG/KG  | U   |
| 36-005 | 36-3043 | 0  | 6      | IN       | Di-n-butylphthalate           | 360    | UG/KG  | U   |
| 36-005 | 36-3042 | ñ  | 6      | IN       | Di-n-butviohthalate           | 350    | UG/KG  | Ū.  |
| 30-005 | 00-0042 | 0  | e<br>e | 114      | Din butunhthalate             | 550    | UG/KG  |     |
| 30-005 | 30-3042 | 0  | 0      | IIN      | Di-fi-bulyiphinalate          | 510    | UG/KG  |     |
| 36-005 | 36-3041 | 0  | 6      | IN       | Di-n-butylphthalate           | 350    | UG/KG  | U   |
| 36-005 | 36-3040 | 0  | 6      | IN       | Di-n-butylphthalate           | 350    | UG/KG  | U   |
| 36-005 | 36-3039 | 0  | 6      | IN       | Di-n-butvlohthalate           | 340    | UG/KG  | U   |
| 36-005 | 36-3038 | Ō  | 6      | IN       | Di-n-buty/obthalate           | 360    | UG/KG  | L   |
| 00 005 | 00 0000 | õ  | e      | INI      | Di n but/lehthelete           | 350    | UG/KG  |     |
| 30-005 | 30-3037 | 0  | 0      | IIN      | Di-n-bulyiphthalate           | 350    | UG/KG  | 0   |
| 36-005 | 36-3036 | 0  | 6      | IN       | Di-n-butylphthalate           | 340    | UG/KG  | U   |
| 36-005 | 36-3035 | 0  | 6      | IN       | Di-n-butylphthalate           | 350    | UG/KG  | U   |
| 36-005 | 36-3034 | 0  | 6      | IN       | Di-n-butylphthalate           | 350    | UG/KG  | U   |
| 36-005 | 36-3034 | 0  | 6      | IN       | Di-n-butylohthalate           | 350    | UG/KG  | U   |
| 26 005 | 26 2026 | õ  | 6      | INI      | Di-n-buty/phthalate           | 140000 | LIG/KG |     |
| 36-005 | 30-3020 | 0  | 0      | II N     | Discharter de tata a la terre | 140000 |        |     |
| 36-005 | 36-3025 | 0  | 6      | IN       | Di-n-butyiphthalate           | 360    | UG/KG  | U   |
| 36-005 | 36-3024 | 0  | 6      | IN       | Di-n-butylphthalate           | 400    | UG/KG  | U   |
| 36-005 | 36-3023 | 0  | 6      | IN       | Di-n-butylphthalate           | 370    | UG/KG  | U   |
| 36-005 | 36-3022 | 0  | 6      | IN       | Di-n-butylohthalate           | 580    | UG/KG  | U   |
| 36-005 | 36-3021 | 0  | 6      | IN       | Di-n-butyinhthalate           | 400    | LIG/KG |     |
| 30-005 | 30-3021 | 0  | 0      | 111      | Dischutzhabelata              | 400    | UQ/KQ  |     |
| 36-005 | 36-3020 | 0  | 6      | IN       | Di-n-butyiphtnalate           | 370    | UG/KG  | U   |
| 36-005 | 36-3019 | 0  | 6      | IN       | Di-n-butylphthalate           | 370    | UG/KG  | U   |
| 36-005 | 36-3018 | 0  | 6      | IN       | Di-n-butylphthalate           | 350    | UG/KG  | U   |
| 36-005 | 36-3018 | 0  | 6      | IN       | Di-n-butylohthalate           | 460    | UG/KG  | U   |
| 36.005 | 36-3051 | õ  | ĕ      | iNI      | Dinitro-2-methylphenol(4.6-)  | 1800   |        | ũ   |
| 36-005 | 30-3031 | 0  | 0      | 111      | Dialta O methode here (A.O.)  | 1800   |        |     |
| 36-005 | 36-3050 | 0  | 6      | IN       | Dinitro-2-methylphenol(4,6-)  | 1800   | UG/KG  | U   |
| 36-005 | 36-3050 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3049 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3048 | 0  | 6      | IN       | Dinitro-2-methylphenol[4.6-]  | 1800   | UG/KG  | U.  |
| 36-005 | 36-3047 | 0  | 6      | IN       | Dipitro-2-methylphenol[4.6-]  | 2000   | UG/KG  | ŭ   |
| 30-005 | 30-3047 | °, | 0      | HTN IN I | Dinitio-2-methylphenol[4,0-]  | 2000   |        |     |
| 36-005 | 36-3046 | U  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1800   | UG/KG  | U   |
| 36-005 | 36-3045 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1900   | UG/KG  | U   |
| 36-005 | 36-3044 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1900   | UG/KG  | U   |
| 36-005 | 36-3043 | 0  | 6      | IN       | Dinitro-2-methylphenol[4.6-]  | 1800   | UG/KG  | U   |
| 36-005 | 36-3042 | ů. | e<br>e | IN       | Dipitro-2-methylphenol(4.6-)  | 1700   | UG/KG  | . ŭ |
| 30-005 | 00-0042 | 0  | 0      | 111      | Dinitio 2 methylphenol(4,0-)  | 1700   |        |     |
| 36-005 | 36-3042 | 0  | ь      | IN       | Dinitro-2-methylphenol[4,6-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3041 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3040 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3039 | 0  | 6      | IN       | Dinitro-2-methylphenol[4.6-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3038 | Ô  | Â      | IN       | Dipitro-2-methylphenol[4.6-]  | 1800   | LIG/KG | ŭ   |
| 00-000 | 00-0000 | ő  | 0      |          | Dinito 2-methylphenol(4,0-)   | 1800   | UQ/KQ  |     |
| 36-005 | 36-3037 | U  | 6      | IIN      | Dinitro-2-metnyipnenoi[4,6-j  | 1700   | UG/KG  | U   |
| 36-005 | 36-3036 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3035 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1800   | UG/KG  | υ   |
| 36-005 | 36-3034 | 0  | 6      | IN       | Dinitro-2-methylphenol(4.6-1  | 1700   | UG/KG  | υ   |
| 36-005 | 36-3034 | Ō  | 6      | IN       | Dinitro-2-methylphenol[4.6-]  | 1800   |        |     |
| 20-005 | 00-0004 | 0  | ç      | 14       | Dinitio-2-methylphenol[4,0-]  | 0000   | UG/KG  |     |
| 30-005 | 30-3020 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 680000 | UG/KG  | 0   |
| 36-005 | 36-3025 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1800   | UG/KG  | U   |
| 36-005 | 36-3024 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 2000   | UG/KG  | υ   |
| 36-005 | 36-3023 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1900   | UG/KG  | U   |
| 36-005 | 36-3022 | 0  | 6      | IN       | Dinitro-2-methylphenol(4.6-1  | 1800   | LIG/KG | H   |
| 26 005 | 26 2021 | õ  | 6      | INI      | Dinitro 2 mothylphonol(1,6 )  | 2000   |        | ŭ   |
| 30-003 | 30-3021 | 0  | 0      | IIN      | Dinitro-2-methyphenol(4,6-)   | 2000   | UG/KG  | U   |
| 36-005 | 36-3020 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1900   | UG/KG  | U   |
| 36-005 | 36-3019 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1900   | UG/KG  | U   |
| 36-005 | 36-3018 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1700   | UG/KG  | υ   |
| 36-005 | 36-3018 | 0  | 6      | IN       | Dinitro-2-methylphenol[4,6-]  | 1800   | UG/KG  |     |
| 26-005 | 26-2051 | 0  | 6      | INI      | Dinitrohenzene(1,2-)          | 0.06   |        | ň   |
| 30-005 | 00-0051 | 0  | 0      | HN IN    | Disitust serves (4.0.)        | 0.03   |        |     |
| 36-005 | 30-3050 | 0  | 0      | IN       | Dinitrobenzene[1,3-]          | 0.061  | UG/G   | U   |
| 36-005 | 36-3050 | 0  | 6      | IN       | Dinitrobenzene[1,3-]          | 0.061  | UG/G   | U   |
| 36-005 | 36-3049 | 0  | 6      | IN       | Dinitrobenzene[1,3-]          | 0.06   | UG/G   | U   |
| 36-005 | 36-3048 | 0  | 6      | IN       | Dinitrobenzene 1.3-1          | 0.062  | UG/G   | U   |
| 36-005 | 36-30/7 | ñ  | Â      | IN       | Dinitrobenzene(1,3-)          | 0.061  | 110/0  | ň   |
| 30 000 | 00-0047 | ~  | ~      |          |                               | 0.001  |        |     |
| 30-005 | 30-3046 | U  | b      | IN       | Dinitropenzene[1,3-]          | 0.06   | UG/G   | U   |
| 36-005 | 36-3045 | 0  | 6      | IN       | Dinitrobenzene[1,3-]          | 0.062  | UG/G   | U   |
| 36-005 | 36-3044 | 0  | 6      | IN       | Dinitrobenzene[1,3-]          | 0.061  | UG/G   | υ   |
| 36-005 | 36-3043 | 0  | 6      | IN       | Dinitrobenzene(1.3-1          | 0.06   | UG/G   | П   |
| 36-005 | 36-3042 | Ó  | 6      | IN       | Dinitrobenzene(1,3-)          | 0.061  |        | ŭ   |
| 26 005 | 26 2040 | č  | 6      | 141      | Dinitrobonzone[1,0]           | 0.001  |        |     |
| 30-005 | 30-3042 | U  | 0      | UN       | Dimitropenzene[1,3-]          | 0.061  | UG/G   | U   |
| 36-005 | 36-3041 | 0  | б      | IN       | Dinitrobenzene[1,3-]          | 0.06   | UG/G   | U   |
| 36-005 | 36-3040 | 0  | 6      | IN       | Dinitrobenzene[1,3-]          | 0.061  | UG/G   | U   |
| 36-005 | 36-3039 | 0  | 6      | IN       | Dinitrobenzene[1,3-]          | 0.06   | UG/G   | U   |

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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| · -          | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                         | 6                                                                                           | IN                                      | Dinitrobenzene[1,3-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                              | UG/G                                                                                                                                                                                                                                                                                                                    | U                                                                                           |  |
|              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                         | 6                                                                                           | IN                                      | Dinitrobenzene[1,3-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                              | UG/G                                                                                                                                                                                                                                                                                                                    | U                                                                                           |  |
| ÷.,          | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                         | 6                                                                                           | IN                                      | Dinitrobenzene[1,3-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                              | UG/G                                                                                                                                                                                                                                                                                                                    | U                                                                                           |  |
|              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                         | 6                                                                                           | IN                                      | Dinitrobenzene[1,3-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                         | 6                                                                                           | IN                                      | Dinitrobenzene[1,3-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                              | UG/G                                                                                                                                                                                                                                                                                                                    | Ū                                                                                           |  |
|              | 36 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                         | Ē.                                                                                          | iNi                                     | Dinitrobonzono[1,3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3034                                                                                                                                                                                                                                                                                                                                                                                                  | 0                                                        | 0                                                                                           | 115                                     | Dinitrobenzene[1,3-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                         | 6                                                                                           | IN<br>IN                                | Dinitrophenol[2,4-]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| * h.         | 36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| *            | 36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| ч <u>, ,</u> | 36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| ч <u>.</u>   | 36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Dinitrophenol[2,4-]<br>Dinitrophenol[2,4-]<br>Dinitrophenol[2,4-]<br>Dinitrophenol[2,4-]<br>Dinitrophenol[2,4-]<br>Dinitrophenol[2,4-]<br>Dinitrophenol[2,4-]<br>Dinitrophenol[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2,4-]<br>Dinitrotoluene[2, 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1800<br>2000<br>1900<br>1800<br>2000<br>1900<br>1900<br>1900<br>1900<br>1700<br>1800<br>350<br>0.061<br>360<br>0.063<br>340<br>0.061<br>360<br>0.063<br>390<br>0.063<br>380<br>0.062<br>380<br>0.062<br>360<br>0.062<br>350<br>0.063<br>340<br>0.062<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.062<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.063<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>350<br>0.062<br>0.062<br>0.062<br>0.062<br>0.062<br>0.062<br>0.062<br>0.062 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                       |                                                                                             |  |

| 36-005 | 36-3040 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.063  | UG/G   | U   |
|--------|---------|---|----------|-------|------------------------|--------|--------|-----|
| 36-005 | 36-3039 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 340    | UG/KG  | U   |
| 36 005 | 36-3030 | õ | 6        | IN    | Dinitrotoluene[2 4-]   | 0.062  | UG/G   | U   |
| 36-005 | 30-3039 | 0 | 0        | IN    | Dinitrotoluono[2,4]    | 360    | LIG/KG | 11  |
| 36-005 | 36-3038 | 0 | 0        | IIN I | Disitestations (2,4-)  | 0.060  |        | 11  |
| 36-005 | 36-3038 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.062  |        |     |
| 36-005 | 36-3037 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3037 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.062  | UG/G   | U   |
| 36-005 | 36-3036 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 340    | UG/KG  | U   |
| 26 005 | 26.2026 | õ | Ē        | IN    | Dinitrotoluene[2.4-]   | 0.062  | UG/G   | υ   |
| 30-005 | 00-0000 | õ | ç        | 151   | Dipitrotoluene[2,4-]   | 350    | UG/KG  | υ   |
| 36-005 | 36-3035 | 0 | Ð        | 11N   | Dinitrotoluene(2,4-)   | 0.064  | LIG/G  | ŭ   |
| 36-005 | 36-3035 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.084  | 00/0   |     |
| 36-005 | 36-3034 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 350    | UG/KG  | 0   |
| 36-005 | 36-3034 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.062  | UG/G   | U   |
| 36-005 | 36-3034 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 350    | UG/KG  | U   |
| 26 005 | 26 2024 | 0 | 6        | IN    | Dinitrotoluene[2.4-]   | 0.062  | UG/G   | U   |
| 36-005 | 30-3034 | 0 | é        | INC   | Dinitrotoluene[2,4]    | 140000 | UG/KG  | Ú.  |
| 36-005 | 36-3026 | 0 | 0        |       | Dinitrotoluene[2,4-]   | 0.062  | LIG/G  | ŭ   |
| 36-005 | 36-3026 | 0 | 6        | IN    | Dinitrotoluene[2,4-j   | 0.002  | 00/0   |     |
| 36-005 | 36-3025 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 360    | UG/KG  | U   |
| 36-005 | 36-3025 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.054  | UG/G   | U   |
| 36-005 | 36-3024 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 400    | UG/KG  | U   |
| 26.005 | 36-3024 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.054  | UG/G   | U   |
| 30-005 | 00-0024 | õ | é        | INI   | Dinitrotoluene[2,4-]   | 370    | UG/KG  | Ū.  |
| 36-005 | 30-3023 | 0 | 0        | 11.5  |                        | 0.055  |        | Ŭ   |
| 36-005 | 36-3023 | 0 | ь        | IN    | Dinitrotoluene[2,4-]   | 0.055  | 00/0   |     |
| 36-005 | 36-3022 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 360    | UG/KG  | U   |
| 36-005 | 36-3022 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.054  | UG/G   | U   |
| 36-005 | 36-3021 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 400    | UG/KG  | υ   |
| 36 005 | 26-2021 | Ô | 6        | IN    | Dinitrotoluene[2 4-]   | 0.054  | UG/G   | υ   |
| 30-005 | 30-3021 | ě | ě        | IN I  | Dinitrotoluono[2,4-]   | 370    | LIG/KG | Ū.  |
| 36-005 | 36-3020 | 0 | 0        | NN NN | Dinitrotoluene(2,4-)   | 0.054  |        | ŭ   |
| 36-005 | 36-3020 | 0 | 6        | IN    | Dinitrotoluene(2,4-)   | 0.054  |        |     |
| 36-005 | 36-3019 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 370    | UG/KG  | U   |
| 36-005 | 36-3019 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.054  | UG/G   | U   |
| 36-005 | 36-3018 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3018 | 0 | 6        | IN    | Dinitrotoluene[2,4-]   | 0.054  | UG/G   | U   |
| 30-005 | 26 2010 | õ | é        | IN    | Dinitrotoluene[2,4-]   | 370    | UG/KG  | U   |
| 36-005 | 30-3018 | 0 | 0        | 11.1  | Dinitrotolucne[2,4-]   | 0.054  |        | ŭ   |
| 36-005 | 36-3018 | 0 | 6        | IN    | Dinitrotoiuene[2,4-]   | 0.054  |        |     |
| 36-005 | 36-3051 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3051 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.092  | UG/G   | U   |
| 36-005 | 36-3050 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 360    | UG/KG  | U   |
| 36-005 | 36-3050 | 0 | 6        | IN    | Dinitrotoluene(2.6-)   | 0.094  | UG/G   | U   |
| 36.005 | 26 2050 | õ | ě        | IN    | Dinitrotoluene(2,6-)   | 350    | UG/KG  | U   |
| 30-005 | 30-3050 | 0 | 0        | IN    | Dinitrotoluono(2,6 )   | 0.094  |        | 11  |
| 36-005 | 36-3050 | 0 | ь        | IN    | Dimitrotoluene[2,6-]   | 0.094  |        |     |
| 36-005 | 36-3049 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 340    | UG/KG  | U   |
| 36-005 | 36-3049 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.092  | UG/G   | U   |
| 36-005 | 36-3048 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 360    | UG/KG  | U   |
| 36-005 | 36-3048 | 0 | 6        | IN    | Dinitrotoluenel2.6-1   | 0.095  | UG/G   | U   |
| 36-005 | 26 2047 | õ | e<br>e   | IN    | Dinitrotoluene[2.6-]   | 390    | UG/KG  | U   |
| 30-005 | 30-3047 | 0 | ç        | 1.1   | Dinitrotoluono[2,6]    | 0.094  | LIG/G  |     |
| 36-005 | 36-3047 | 0 | 0        | EN .  | Dimitrotoidene[2,04]   | 0.004  |        | ŭ   |
| 36-005 | 36-3046 | 0 | 6        | in    | Dinitrotoluene[2,6-]   | 360    | UG/KG  |     |
| 36-005 | 36-3046 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.092  | UG/G   | U   |
| 36-005 | 36-3045 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 380    | UG/KG  | U   |
| 36-005 | 36-3045 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.096  | UG/G   | υ   |
| 36-005 | 36-3044 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 380    | UG/KG  | υ   |
| 26.005 | 26 2044 | õ | ě        | IN    | Dinitrotoluene[2.6-]   | 0.094  | UG/G   | Ð   |
| 00-000 | 00-0044 | 0 | 6        | IN    | Dinitrotoluono[2,6-]   | 360    |        |     |
| 36-005 | 36-3043 | 0 | D<br>O   | 115   | Divite stal and [2,0-] | 0.000  | UCIC   |     |
| 36-005 | 36-3043 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.092  | UG/G   | 0   |
| 36-005 | 36-3042 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3042 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.094  | UG/G   | U   |
| 36-005 | 36-3042 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 340    | UG/KG  | U   |
| 36-005 | 36-3042 | 0 | 6        | IN    | Dinitrotoluene[2.6-]   | 0.094  | UG/G   | U   |
| 30-005 | 00-0044 | ő | č        | IN    | Dinitrotoluono[2,6.]   | 350    | LIG/KG | . ŭ |
| 36-005 | 36-3041 | 0 | 0        | IN    | Dinitrotoidene[2,0-]   | 0.000  |        |     |
| 36-005 | 36-3041 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.092  | UG/G   | 0   |
| 36-005 | 36-3040 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3040 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.094  | UG/G   | U   |
| 36-005 | 36-3039 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 340    | UG/KG  | U   |
| 36-005 | 36-3039 | 0 | 6        | IN    | Dinitrotoluene[2.6-]   | 0.093  | UG/G   | U   |
| 36,005 | 36 3039 | ň | 6        | IN    | Dipitrotoluene[2.6-]   | 360    | UG/KG  | Ū.  |
| 00-005 | 30-3030 | 0 | <u>,</u> | 11 1  | Dinitrotoluono(2,6-)   | 0.002  |        |     |
| 36-005 | 30-3038 | U | o<br>c   | IN    | Disituate Lease (2.0.) | 0.093  |        |     |
| 36-005 | 36-3037 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3037 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.093  | UG/G   | U   |
| 36-005 | 36-3036 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 340    | UG/KG  | U   |
| 36-005 | 36-3036 | 0 | 6        | IN    | Dinitrotoluene[2.6-1   | 0.093  | UG/G   | U   |
| 36-005 | 36-3032 | ñ | Â        | IN    | Dinitrotoluene[2.6-1   | 350    | UG/KG  | u   |
| 00-000 | 30-3033 | 0 | e o      | 11.4  | Dinitrotoluono[2,6]    | 0.005  |        | , i |
| 30-005 | 30-3035 | 0 | Ö        | IIN   | Dinitrotoluene[2,0-]   | 0.095  |        |     |
| 36-005 | 36-3034 | 0 | 6        | IN    | Dinitrotoluene[2,6-]   | 0.093  | 00/6   | Ų   |

|       | 36-005 | 36-3034 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 350    | UG/KG | U  |
|-------|--------|---------|--------|--------|-------------|----------------------|--------|-------|----|
| 114   | 36-005 | 36-3034 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 350    | UG/KG | U  |
|       | 36-005 | 36-3034 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 0.093  | UG/G  | U  |
| 49 A. | 36-005 | 36-3026 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 140000 | UG/KG | U  |
|       | 36-005 | 36-3026 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 0.093  | UG/G  | U  |
|       | 36-005 | 36-3025 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 360    | UG/KG | U  |
|       | 36-005 | 36-3025 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 0.08   | UG/G  | U  |
|       | 36-005 | 36-3024 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 400    | UG/KG | U  |
|       | 36-005 | 36-3024 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | U  |
|       | 36-005 | 36-3023 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 370    | UG/KG | U  |
|       | 36-005 | 36-3023 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | U  |
|       | 36-005 | 36-3022 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 360    | UG/KG | υ  |
|       | 36-005 | 36-3022 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | υ  |
|       | 36-005 | 36-3021 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 400    | UG/KG | U  |
|       | 36-005 | 36-3021 | õ      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | U  |
|       | 36-005 | 36-3020 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 370    | UG/KG | U  |
|       | 36-005 | 36-3020 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | υ  |
|       | 36-005 | 36-3019 | 0      | 6      | IN          | Dinitrotoluene[2,6-] | 370    | UG/KG | U  |
|       | 36-005 | 36-3019 | õ      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | U  |
|       | 36-005 | 36-3018 | õ      | 6      | IN          | Dinitrotoluene(2,6-) | 350    | UG/KG | U  |
|       | 36-005 | 36-3018 | Ő      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | ບ  |
|       | 36-005 | 36-3018 | Ő      | 6      | IN          | Dinitrotoluene[2,6-] | 370    | UG/KG | υ  |
|       | 36-005 | 36-3018 | õ      | 6      | IN          | Dinitrotoluene[2,6-] | 0.081  | UG/G  | U  |
|       | 36-005 | 36-3051 | õ      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | U  |
|       | 36-005 | 36-3050 | õ      | 6      | IN          | Di-n-octylphthalate  | 360    | UG/KG | U  |
|       | 36-005 | 36-3050 | õ      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | υ  |
|       | 36-005 | 36-3049 | õ      | 6      | IN          | Di-n-octylphthalate  | 340    | UG/KG | υ  |
|       | 36-005 | 36-3048 | õ      | 6      | IN          | Di-n-octylphthalate  | 360    | UG/KG | U  |
|       | 36-005 | 36-3047 | ō      | 6      | IN          | Di-n-octylphthalate  | 390    | UG/KG | U  |
|       | 36-005 | 36-3046 | ō      | 6      | IN          | Di-n-octylphthalate  | 360    | UG/KG | U  |
|       | 36-005 | 36-3045 | ō      | 6      | IN          | Di-n-octylphthalate  | 380    | UG/KG | U  |
|       | 36-005 | 36-3044 | 0      | 6      | IN          | Di-n-octylphthalate  | 380    | UG/KG | U  |
|       | 36-005 | 36-3043 | ō      | 6      | IN          | Di-n-octylphthalate  | 360    | UG/KG | U  |
|       | 36-005 | 36-3042 | 0      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | U  |
|       | 36-005 | 36-3042 | 0      | 6      | IN          | Di-n-octylphthalate  | 340    | UG/KG | υ  |
|       | 36-005 | 36-3041 | Ō      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | U  |
|       | 36-005 | 36-3040 | ō      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | υ  |
|       | 36-005 | 36-3039 | 0      | 6      | IN          | Di-n-octylphthalate  | 340    | UG/KG | υ  |
| ×     | 36-005 | 36-3038 | Ó      | 6      | IN          | Di-n-octylphthalate  | 360    | UG/KG | U  |
|       | 36-005 | 36-3037 | ō      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | υ  |
|       | 36-005 | 36-3036 | 0      | 6      | IN          | Di-n-octylphthalate  | 340    | UG/KG | U  |
|       | 36-005 | 36-3035 | 0      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | U  |
|       | 36-005 | 36-3034 | 0      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | υ  |
|       | 36-005 | 36-3034 | 0      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | U  |
|       | 36-005 | 36-3026 | 0      | 6      | IN          | Di-n-octylphthalate  | 140000 | UG/KG | U  |
|       | 36-005 | 36-3025 | 0      | 6      | IN          | Di-n-octylphthalate  | 360    | UG/KG | U  |
|       | 36-005 | 36-3024 | 0      | 6      | IN          | Di-n-octylphthalate  | 400    | UG/KG | U  |
|       | 36-005 | 36-3023 | 0      | 6      | IN          | Di-n-octylphthalate  | 370    | UG/KG | U  |
|       | 36-005 | 36-3022 | 0      | 6      | IN          | Di-n-octylphthalate  | 360    | UG/KG | υ  |
|       | 36-005 | 36-3021 | 0      | 6      | IN          | Di-n-octylphthalate  | 400    | UG/KG | U  |
|       | 36-005 | 36-3020 | 0      | 6      | IN          | Di-n-octylphthalate  | 370    | UG/KG | U  |
|       | 36-005 | 36-3019 | 0      | 6      | IN          | Di-n-octylphthalate  | 370    | UG/KG | U  |
|       | 36-005 | 36-3018 | 0      | 6      | IN          | Di-n-octylphthalate  | 350    | UG/KG | υ  |
|       | 36-005 | 36-3018 | 0      | 6      | iN          | Di-n-octylphthalate  | 370    | UG/KG | υ  |
|       | 36-005 | 36-3051 | 0      | 6      | IN          | Ethylbenzene         | 5      | UG/KG | U  |
|       | 36-005 | 36-3050 | 0      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 36-005 | 36-3050 | 0      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 36-005 | 36-3049 | Õ      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 36-005 | 36-3048 | ō      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 36-005 | 36-3047 | Ō      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | υ  |
|       | 36-005 | 36-3046 | 0      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 36-005 | 36-3045 | õ      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 36-005 | 36-3044 | õ      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | υ  |
|       | 36-005 | 36-3043 | õ      | 6      | IN          | Ethvibenzene         | 5      | UG/KG | U  |
|       | 36-005 | 36-3042 | õ      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | UJ |
|       | 36-003 | 36-3042 | ñ      | 6      | IN          | Ethylbenzene         | 5      | UG/KG | U  |
|       | 36-005 | 36-3041 | ñ      | 6      | IN          | Ethylbenzene         | 5      | UG/KG | U  |
|       | 30-003 | 36-3041 | ñ      | 6      | IN          | Ethylbenzene         | 5      | UG/KG | υ  |
|       | 30-003 | 36-3040 | ñ      | 6      | IN          | Ethylbenzene         | 5      | UG/KG | U  |
|       | 30-003 | 36-3038 | 0      | 6      | IN          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 30-005 | 36-3030 | n      | 6      | IN          | Ethylbenzene         | 5      | UG/KG | Ū  |
|       | 30-005 | 30-3037 | n<br>N | 6      | IN          | Ethylbenzene         | 6      | UG/KG | υ  |
|       | 30-005 | 36-3030 | ň      | 6      | 1N          | Ethylbenzene         | 6      | UG/KG | U  |
|       | 30-005 | 30-3033 | 0      | 6<br>8 | IN          | Ethylbenzene         | 6      | UG/KG | Ū  |
| 11    | 36-005 | 30-3034 | U      | U      | 11 <b>1</b> |                      | -      |       | -  |

| 36-005 | 36-3034 | 0   | 6      | iNi        | Ethylbenzene      | 5      | UG/KG  | U  |
|--------|---------|-----|--------|------------|-------------------|--------|--------|----|
| 26.005 | 36-3034 | 0   | 0      | IN IN      | Ethylbenzene      | 5      | UG/KG  | ũ  |
| 30-005 | 30-3020 | 0   | 6      | 115        | Ethylbenzene      | 25     |        |    |
| 36-005 | 36-3025 | 0   | 6      | IN         | Ethylbenzene      | 5      | UG/KG  | U  |
| 36-005 | 36-3024 | 0   | 6      | IN         | Ethylbenzene      | 6      | UG/KG  | U  |
| 36-005 | 36-3023 | 0   | 6      | IN         | Ethylbenzene      | 6      | UG/KG  | U  |
| 36-005 | 36-3022 | 0   | 6      | IN         | Ethylbenzene      | 6      | UG/KG  | U  |
| 36-005 | 36-3021 | 0   | 6      | IN         | Ethylbenzene      | 6      | UG/KG  | U  |
| 36-005 | 36-3020 | 0   | 6      | IN         | Ethylbenzene      | 6      | LIG/KG |    |
| 36-005 | 36-3019 | ñ   | e<br>e | INI        | Ethylbonzono      | 0      | UC/KG  |    |
| 26 005 | 26 2019 | õ   | 0      | 111        | Ethybenzene       | 0      | UG/KG  | U  |
| 36-005 | 30-3018 | 0   | 6      | IN         | Ethylbenzene      | 6      | UG/KG  | U  |
| 36-005 | 36-3018 | 0   | 6      | IN         | Ethylbenzene      | 6      | UG/KG  | υ  |
| 36-005 | 36-3051 | 0   | 6      | IN         | Fluoranthene      | 350    | UG/KG  | U  |
| 36-005 | 36-3050 | 0   | 6      | IN         | Fluoranthene      | 360    | UG/KG  | U  |
| 36-005 | 36-3050 | 0   | 6      | IN         | Fluoranthene      | 350    | LIG/KG | Ŭ. |
| 36-005 | 36-3049 | 0   | 6      | IN         | Fluoranthene      | 340    |        |    |
| 36-005 | 36-3048 | õ   | 6      | INI        | Fluoranthene      | 340    |        | 0  |
| 26.005 | 26 2047 | 0   | с<br>С | IIN INI    | Fluoranniene      | 360    | UG/KG  | U  |
| 30-005 | 30-3047 | 0   | 0      | HN III     | Fluorantnene      | 390    | UG/KG  | U  |
| 36-005 | 36-3046 | 0   | 6      | IN         | Fluoranthene      | 360    | UG/KG  | υ  |
| 36-005 | 36-3045 | 0   | 6      | IN         | Fluoranthene      | 380    | UG/KG  | U  |
| 36-005 | 36-3044 | 0   | 6      | IN         | Fluoranthene      | 380    | UG/KG  | U  |
| 36-005 | 36-3043 | 0   | 6      | IN         | Fluoranthene      | 360    | UG/KG  |    |
| 36-005 | 36-3042 | 0   | 6      | IN         | Fluoranthene      | 250    |        | ŭ  |
| 26 005 | 36 3043 | ő   | ĉ      | INI        | Elverenthene      | 330    | UG/KG  | 0  |
| 30-005 | 00-0044 | 0   | 0      |            | Fluorantinene     | 340    | UG/KG  | U  |
| 36-005 | 36-3041 | 0   | 6      | IN         | Fluorantnene      | 350    | UG/KG  | U  |
| 36-005 | 36-3040 | . 0 | 6      | IN         | Fluoranthene      | 350    | UG/KG  | U  |
| 36-005 | 36-3039 | 0   | 6      | IN         | Fluoranthene      | 340    | UG/KG  | U  |
| 36-005 | 36-3038 | 0   | 6      | IN         | Fluoranthene      | 360    | UG/KG  | u  |
| 36-005 | 36-3037 | 0   | 6      | IN         | Fluoranthene      | 350    | UG/KG  | ŭ  |
| 36-005 | 36-3036 | 0   | ĥ      | IN         | Fluoranthene      | 240    |        | Ŭ  |
| 26.005 | 20-0000 | 0   | °      | 11 1       | Fiverenthese      | 340    |        | 0  |
| 30-005 | 30-3035 | 0   | 0      | IIN        | Fluoranthene      | 350    | UG/KG  | U  |
| 36-005 | 36-3034 | 0   | 6      | IN         | Fluoranthene      | 350    | UG/KG  | U  |
| 36-005 | 36-3034 | 0   | 6      | IN         | Fluoranthene      | 350    | UG/KG  | U  |
| 36-005 | 36-3026 | 0   | 6      | IN         | Fluoranthene      | 140000 | UG/KG  | υ  |
| 36-005 | 36-3025 | 0   | 6      | IN         | Fluoranthene      | 360    | UG/KG  | 11 |
| 36-005 | 36-3024 | 0   | 6      | IN         | Eluoranthene      | 400    |        |    |
| 36 005 | 36 2022 | õ   | é      | 111        | Fluoranthene      | 400    |        |    |
| 30-005 | 30-3023 | 0   | 0      | HN .       | Fluorantinene     | 370    | UG/KG  | U  |
| 36-005 | 36-3022 | 0   | 6      | IN         | Fluoranthene      | 360    | UG/KG  | U  |
| 36-005 | 36-3021 | 0   | 6      | IN         | Fluoranthene      | 400    | UG/KG  | U  |
| 36-005 | 36-3020 | 0   | 6      | IN         | Fluoranthene      | 370    | UG/KG  | U  |
| 36-005 | 36-3019 | 0   | 6      | IN         | Fluoranthene      | 370    | UG/KG  | U  |
| 36-005 | 36-3018 | 0   | 6      | IN         | Fluoranthene      | 350    | LIG/KG | ũ  |
| 36-005 | 36-3018 | ō   | 6      | IN         | Fluoranthene      | 370    | UG/KG  |    |
| 26 005 | 26 2051 | õ   | 6      | IN         | Fluerene          | 370    |        |    |
| 30-005 | 00.0050 | 0   | 0      | IIN<br>INI | Fluorene          | 350    | UG/KG  | U  |
| 36-005 | 36-3050 | 0   | 6      | IN         | Fluorene          | 360    | UG/KG  | U  |
| 36-005 | 36-3050 | 0   | 6      | IN         | Fluorene          | 350    | UG/KG  | υ  |
| 36-005 | 36-3049 | 0   | 6      | IN         | Fluorene          | 340    | UG/KG  | U  |
| 36-005 | 36-3048 | 0   | 6      | IN         | Fluorene          | 360    | UG/KG  | ū  |
| 36-005 | 36-3047 | 0   | 6      | IN -       | Fluorene          | 390    | LIG/KG |    |
| 36-005 | 36-3046 | 0   | ê      | IN         | Fluorono          | 350    | UQ/KQ  |    |
| 36.005 | 00-0045 | 0   | 0      | 111        | Fluorene          | 360    | UG/KG  | U  |
| 30-005 | 30-3045 | 0   | 0      | IN         | Fluorene          | 380    | UG/KG  | U  |
| 36-005 | 36-3044 | 0   | 6      | IN         | Fluorene          | 380    | UG/KG  | U  |
| 36-005 | 36-3043 | 0   | 6      | IN         | Fluorene          | 360    | UG/KG  | U  |
| 36-005 | 36-3042 | 0   | 6      | IN         | Fluorene          | 350    | UG/KG  | U  |
| 36-005 | 36-3042 | 0   | 6      | iN         | Fluorene          | 340    | LIG/KG |    |
| 36-005 | 36-3041 | ō   | 6      | IN         | Eluorene          | 350    | UG/KG  | ŭ  |
| 26.005 | 26 2040 | õ   | 6      | INI        | Fluerene          | 350    |        | 0  |
| 30-005 | 30-3040 | 0   | 0      |            | Fluorene          | 350    | UG/KG  | U  |
| 36-005 | 36-3039 | 0   | 6      | IN         | Fluorene          | 340    | UG/KG  | U  |
| 36-005 | 36-3038 | 0   | 6      | IN         | Fluorene          | 360    | UG/KG  | U  |
| 36-005 | 36-3037 | 0   | 6      | IN         | Fluorene          | 350    | UG/KG  | U  |
| 36-005 | 36-3036 | 0   | 6      | IN         | Fluorene          | 340    | UG/KG  | 11 |
| 36-005 | 36-3035 | 0   | 6      | IN         | Fluorene          | 350    |        | ŭ  |
| 36-005 | 36-3034 | õ   | â      | IN         | Eluorono          | 350    | UG/KG  | 0  |
| 36 005 | 26 2024 | 0   | с<br>С | IN IN      | Fluorene          | 350    | UG/KG  | 0  |
| 00-005 | 00-0004 | 0   | 0      | 111        | riuorene          | 350    | UG/KG  | U  |
| 30-005 | 36-3026 | 0   | 6      | IN         | Fluorene          | 140000 | UG/KG  | U  |
| 36-005 | 36-3025 | 0   | 6      | IN         | Fluorene          | 360    | UG/KG  | U  |
| 36-005 | 36-3024 | 0   | 6      | IN         | Fluorene          | 400    | UG/KG  | Ū. |
| 36-005 | 36-3023 | 0   | 6      | IN         | Fluorene          | 370    | UG/KG  |    |
| 36-005 | 36-3022 | 0   | 6      | IN         | Fluorene          | 360    |        |    |
| 36-005 | 36-3031 | õ   | e<br>e | IN         | Elucrono          | 300    |        |    |
| 00-005 | 00-0021 | 0   | 0      | 11N        | Fluorene          | 400    | UG/KG  | U  |
| 30-005 | 36-3020 | U   | 6      | IN         | Fluorene          | 370    | UG/KG  | U  |
| 36-005 | 36-3019 | 0   | 6      | IN         | Fluorene          | 370    | UG/KG  | U  |
| 36-005 | 36-3018 | 0   | 6      | IN         | Fluorene          | 350    | UG/KG  | U  |
| 36-005 | 36-3018 | 0   | 6      | IN         | Fluorene          | 370    | UG/KG  | ũ  |
| 36-005 | 36-3051 | 0   | 6      | IN         | Hexachlorobenzene | 350    | UG/KG  |    |
|        |         | -   | -      |            |                   |        |        |    |

|                 | 36-005 | 36-3050 | 0 | 6 | IN | Hexachlorobenzene          | 360    | UG/KG | U     |
|-----------------|--------|---------|---|---|----|----------------------------|--------|-------|-------|
|                 | 36-005 | 36-3050 | ō | 6 | IN | Hexachlorobenzene          | 350    | UG/KG | υ     |
|                 | 36-005 | 36-3049 | 0 | 6 | IN | Hexachlorobenzene          | 340    | UG/KG | U     |
|                 | 36-005 | 36-3048 | 0 | 6 | IN | Hexachlorobenzene          | 360    | UG/KG | U     |
|                 | 36-005 | 36-3047 | 0 | 6 | IN | Hexachlorobenzene          | 390    | UG/KG | U     |
|                 | 36-005 | 36-3046 | 0 | 6 | IN | Hexachlorobenzene          | 360    | UG/KG | U     |
|                 | 36-005 | 36-3045 | 0 | 6 | IN | Hexachlorobenzene          | 380    | UG/KG | U     |
|                 | 36-005 | 36-3044 | 0 | 6 | IN | Hexachlorobenzene          | 380    | UG/KG | U     |
|                 | 36-005 | 36-3043 | 0 | 6 | IN | Hexachlorobenzene          | 360    | UG/KG | U     |
|                 | 36-005 | 36-3042 | 0 | 6 | IN | Hexachlorobenzene          | 350    | UG/KG | U     |
|                 | 36-005 | 36-3042 | 0 | 6 | IN | Hexachlorobenzene          | 340    | UG/KG | υ     |
|                 | 36-005 | 36-3041 | 0 | 6 | IN | Hexachlorobenzene          | 350    | UG/KG | υ     |
|                 | 36-005 | 36-3040 | 0 | 6 | IN | Hexachlorobenzene          | 350    | UG/KG | υ     |
|                 | 36-005 | 36-3039 | 0 | 6 | IN | Hexachlorobenzene          | 340    | UG/KG | υ     |
|                 | 36-005 | 36-3038 | Ō | 6 | IN | Hexachlorobenzene          | 360    | UG/KG | U     |
|                 | 36-005 | 36-3037 | 0 | 6 | IN | Hexachiorobenzene          | 350    | UG/KG | υ     |
|                 | 36-005 | 36-3036 | 0 | 6 | IN | Hexachlorobenzene          | 340    | UG/KG | U     |
|                 | 36-005 | 36-3035 | 0 | 6 | IN | Hexachlorobenzene          | 350    | UG/KG | U     |
|                 | 36-005 | 36-3034 | 0 | 6 | IN | Hexachlorobenzene          | 350    | UG/KG | U     |
|                 | 36-005 | 36-3034 | 0 | 6 | IN | Hexachiorobenzene          | 350    | UG/KG | U     |
|                 | 36-005 | 36-3026 | 0 | 6 | IN | Hexachlorobenzene          | 140000 | UG/KG | U     |
|                 | 36-005 | 36-3025 | 0 | 6 | iN | Hexachlorobenzene          | 360    | UG/KG | U     |
|                 | 36-005 | 36-3024 | 0 | 6 | IN | Hexachlorobenzene          | 400    | UG/KG | υ     |
|                 | 36-005 | 36-3023 | 0 | 6 | IN | Hexachlorobenzene          | 370    | UG/KG | U     |
|                 | 36-005 | 36-3022 | 0 | 6 | IN | Hexachlorobenzene          | 360    | UG/KG | υ     |
|                 | 36-005 | 36-3021 | 0 | 6 | IN | Hexachlorobenzene          | 400    | UG/KG | U     |
|                 | 36-005 | 36-3020 | 0 | 6 | IN | Hexachlorobenzene          | 370    | UG/KG | U     |
|                 | 36-005 | 36-3019 | 0 | 6 | IN | Hexachlorobenzene          | 370    | UG/KG | U     |
|                 | 36-005 | 36-3018 | 0 | 6 | IN | Hexachlorobenzene          | 350    | UG/KG | U     |
|                 | 36-005 | 36-3018 | 0 | 6 | IN | Hexachlorobenzene          | 370    | UG/KG | U     |
|                 | 36-005 | 36-3051 | 0 | 6 | IN | Hexachlorobutadiene        | 350    | UG/KG | U     |
|                 | 36-005 | 36-3050 | 0 | 6 | IN | Hexachlorobutadiene        | 360    | UG/KG | U     |
|                 | 36-005 | 36-3050 | 0 | 6 | IN | Hexachlorobutadiene        | 350    | UG/KG | U     |
|                 | 36-005 | 36-3049 | 0 | 6 | IN | Hexachlorobutadiene        | 340    | UG/KG | U     |
|                 | 36-005 | 36-3048 | 0 | 6 | IN | Hexachlorobutadiene        | 360    | UG/KG | U     |
|                 | 36-005 | 36-3047 | 0 | 6 | IN | Hexachlorobutadiene        | 390    | UG/KG | U     |
| S.              | 36-005 | 36-3046 | 0 | 6 | IN | Hexachlorobutadiene        | 360    | UG/KG | U     |
| ás.             | 36-005 | 36-3045 | 0 | 6 | IN | Hexachlorobutadiene        | 380    | UG/KG | U     |
| 9955            | 36-005 | 36-3044 | 0 | 6 | IN | Hexachlorobutadiene        | 380    | UG/KG | U     |
|                 | 36-005 | 36-3043 | 0 | 6 | IN | Hexachlorobutadiene        | 360    | UG/KG | U     |
|                 | 36-005 | 36-3042 | 0 | 6 | IN | Hexachlorobutadiene        | 350    | UG/KG | U     |
|                 | 36-005 | 36-3042 | 0 | 6 | IN | Hexachlorobutadiene        | 340    | UG/KG | 0     |
|                 | 36-005 | 36-3041 | 0 | 6 | IN | Hexachlorobutadiene        | 350    | UG/KG | . U   |
|                 | 36-005 | 36-3040 | 0 | 6 | IN | Hexachlorobutadiene        | 350    | UG/KG | 0     |
|                 | 36-005 | 36-3039 | 0 | 6 | IN | Hexachlorobutadiene        | 340    | UG/KG | 0     |
|                 | 36-005 | 36-3038 | 0 | 6 | IN | Hexachlorobutadiene        | 360    | UG/KG | 0     |
|                 | 36-005 | 36-3037 | 0 | 6 | IN | Hexachlorobutadiene        | 350    | UG/KG |       |
|                 | 36-005 | 36-3036 | 0 | 6 | IN | Hexachlorobutadiene        | 340    | UG/KG |       |
|                 | 36-005 | 36-3035 | 0 | 6 | IN | Hexachlorobutadiene        | 350    |       |       |
|                 | 36-005 | 36-3034 | 0 | 6 | IN | Hexachlorobutadiene        | 350    |       |       |
|                 | 36-005 | 36-3034 | 0 | 6 | IN | Hexachiorobutadiene        | 350    |       |       |
|                 | 36-005 | 36-3026 | 0 | 6 | IN | Hexachlorobutadiene        | 140000 |       |       |
|                 | 36-005 | 36-3025 | 0 | 6 | 1N |                            | 360    |       |       |
|                 | 36-005 | 36-3024 | 0 | 6 | IN | Hexachlorobutadiene        | 400    |       |       |
|                 | 36-005 | 36-3023 | 0 | 6 | IN |                            | 370    |       |       |
|                 | 36-005 | 36-3022 | 0 | 6 | IN | Hexachlorobutadiene        | 360    |       |       |
|                 | 36-005 | 36-3021 | 0 | 6 | IN | Hexachiorobutadiene        | 400    |       |       |
|                 | 36-005 | 36-3020 | 0 | 6 | IN | Hexachiorobutadiene        | 370    |       |       |
|                 | 36-005 | 36-3019 | 0 | 6 | IN | Hexachiorobutadiene        | 370    |       |       |
|                 | 36-005 | 36-3018 | 0 | 6 | IN | Hexachlorobutadiene        | 350    | UG/KG |       |
|                 | 36-005 | 36-3018 | 0 | 6 | IN | Hexachioroputaciene        | 370    |       |       |
|                 | 36-005 | 36-3051 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 350    |       |       |
|                 | 36-005 | 36-3050 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 360    | UG/KG | 0     |
|                 | 36-005 | 36-3050 | 0 | 6 | IN | nexachiorocyclopentadiene  | 350    |       | 0     |
|                 | 36-005 | 36-3049 | 0 | 6 | IN | riexachiorocyclopentagiene | 340    |       |       |
|                 | 36-005 | 36-3048 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 360    |       | U<br> |
|                 | 36-005 | 36-3047 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 390    |       | 0     |
|                 | 36-005 | 36-3046 | 0 | 6 | IN | Hexachlorocyclopentadiene  | 360    | UG/KG | 0     |
|                 | 36-005 | 36-3045 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 380    | UG/KG | U     |
|                 | 36-005 | 36-3044 | 0 | 6 | IN | Hexachlorocyclopentadiene  | 380    | UG/KG | 0     |
|                 | 36-005 | 36-3043 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 360    | UG/KG | 0     |
| 1               | 36-005 | 36-3042 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 350    | UG/KG | 0     |
|                 | 36-005 | 36-3042 | 0 | 6 | IN | Hexachiorocyclopentadiene  | 340    | UG/KG | U     |
| ν <sub>pr</sub> | 36-005 | 36-3041 | 0 | 6 | IN | Hexachlorocyclopentadiene  | 350    | UG/KG | U     |

| 36-005 | 36-3040 | 0      | 6      | IN           | Havashlarogyclopentadiona | 350    |        | E1  |
|--------|---------|--------|--------|--------------|---------------------------|--------|--------|-----|
| 36-005 | 30-3040 | 0      | 0      | IN IN        |                           | 330    | UC/KC  |     |
| 36-005 | 36-3039 | 0      | 0      | IN           | Hexachiorocyclopentadiene | 340    | UG/KG  | U   |
| 36-005 | 36-3038 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 360    | UG/KG  | U   |
| 36-005 | 36-3037 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 350    | UG/KG  | U   |
| 36-005 | 36-3036 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 340    | UG/KG  | U   |
| 36-005 | 36-3035 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 350    | UG/KG  | U   |
| 36-005 | 36-3034 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 350    | UG/KG  | U   |
| 36-005 | 36-3034 | Ō      | 6      | IN           | Hexachlorocyclonentadiene | 350    | LIG/KG |     |
| 36-005 | 36-2026 | ő      | e<br>e | INI          | Hexachieregyelepentadiene | 140000 | UG/KG  | ů U |
| 00-005 | 36,3020 | 0      | Č      | H N          |                           | 140000 |        | 0   |
| 36-005 | 36-3025 | 0      | ь      | IN           | Hexachiorocyclopentadiene | 360    | UG/KG  | U   |
| 36-005 | 36-3024 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 400    | UG/KG  | U   |
| 36-005 | 36-3023 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 370    | UG/KG  | U   |
| 36-005 | 36-3022 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 360    | UG/KG  | U   |
| 36-005 | 36-3021 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 400    | UG/KG  | U   |
| 36-005 | 36-3020 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 370    | UG/KG  | ů.  |
| 36-005 | 36-3019 | 0      | 6      | IN           | Hexachlorocyclopentadiene | 370    | LIG/KG | -   |
| 36-005 | 36-3018 | õ      | ē      | IN           | Hexachlorocyclopentadiene | 350    | UG/KG  | U U |
| 36-005 | 26-2019 | ő      | 6      | IN           | Hexachlorocyclopentadiene | 370    | UG/KG  | 1   |
| 36-005 | 30-3016 | 0      | 0      | line<br>In l | Hexachiorocyciopentaciene | 370    | UG/KG  | 0   |
| 36-005 | 36-3051 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  | U   |
| 36-005 | 36-3050 | 0      | 6      | IN           | Hexachloroethane          | 360    | UG/KG  | U   |
| 36-005 | 36-3050 | 0      | 6      | IN           | Hexachioroethane          | 350    | UG/KG  | U   |
| 36-005 | 36-3049 | 0      | 6      | IN           | Hexachloroethane          | 340    | UG/KG  | U   |
| 36-005 | 36-3048 | 0      | 6      | IN           | Hexachloroethane          | 360    | UG/KG  | υ   |
| 36-005 | 36-3047 | 0      | 6      | IN           | Hexachloroethane          | 390    | UG/KG  |     |
| 36-005 | 36-3046 | õ      | ĥ      | IN           | Hexachloroothano          | 360    | UG/KG  |     |
| 36.005 | 36 3046 | 0      | 6      | IIN IAI      | lievachioroethane         | 300    |        |     |
| 36-005 | 36-3045 | 0      | 6      | IN           | Hexachioroemane           | 380    | UG/KG  | U   |
| 36-005 | 36-3044 | 0      | 6      | IN           | Hexachloroethane          | 380    | UG/KG  | U   |
| 36-005 | 36-3043 | 0      | 6      | IN           | Hexachloroethane          | 360    | UG/KG  | U   |
| 36-005 | 36-3042 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  | U   |
| 36-005 | 36-3042 | 0      | 6      | IN           | Hexachloroethane          | 340    | UG/KG  | U   |
| 36-005 | 36-3041 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  | UB  |
| 36-005 | 36-3040 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  |     |
| 36.005 | 26-2020 | õ      | 6      | INI          | Hexachioroethane          | 330    |        |     |
| 30-005 | 30-3039 | 0      | 0      | IIN III      | Hexachioroethane          | 340    | UG/KG  | UR  |
| 36-005 | 36-3038 | 0      | 6      | IN           | Hexachloroethane          | 360    | UG/KG  | UR  |
| 36-005 | 36-3037 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  | UR  |
| 36-005 | 36-3036 | 0      | 6      | IN           | Hexachloroethane          | 340    | UG/KG  | UR  |
| 36-005 | 36-3035 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  | UR  |
| 36-005 | 36-3034 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  | UR  |
| 36-005 | 36-3034 | 0      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  | UB  |
| 36-005 | 36-3026 | n n    | ē      | IN           | Hexachloroethane          | 140000 | UG/KG  |     |
| 26 005 | 26 2025 | õ      | e      | IN           | Hexachioroethane          | 140000 | UG/KG  |     |
| 30-005 | 30-3025 | 0      | 0      | IN           | Hexachioroethane          | 360    | UG/KG  | U   |
| 36-005 | 36-3024 | 0      | 6      | IN           | Hexachioroethane          | 400    | UG/KG  | U   |
| 36-005 | 36-3023 | 0      | 6      | IN           | Hexachloroethane          | 370    | UG/KG  | U   |
| 36-005 | 36-3022 | 0      | 6      | IN           | Hexachloroethane          | 360    | UG/KG  | U   |
| 36-005 | 36-3021 | 0      | 6      | IN           | Hexachloroethane          | 400    | UG/KG  | U   |
| 36-005 | 36-3020 | 0      | 6      | IN           | Hexachloroethane          | 370    | UG/KG  | U   |
| 36-005 | 36-3019 | 0      | 6      | IN           | Hexachloroethane          | 370    | UG/KG  | Ŭ.  |
| 36-005 | 36-3018 | õ      | 6      | IN           | Hexachloroethane          | 350    | UG/KG  |     |
| 30-005 | 36 3019 | ŏ      | 6      | IN IN        | Hevesblereethere          | 350    | UG/KG  | 0   |
| 30-005 | 30-3010 | 0      | 0      | lin          | Hexachioroethane          | 370    | UG/KG  | U   |
| 36-005 | 36-3051 | U      | 6      | IN           | Hexanone[2-]              | 20     | UG/KG  | U   |
| 36-005 | 36-3050 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | U   |
| 36-005 | 36-3050 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | U   |
| 36-005 | 36-3049 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | υ   |
| 36-005 | 36-3048 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | Ū.  |
| 36-005 | 36-3047 | 0      | 6      | IN           | Hexanone[2-]              | 24     |        | , u |
| 36-005 | 36-3046 | õ      | 6      | IN           | Hexenone[2]               | 24     |        | ŭ   |
| 36-005 | 30-3040 | 0      | 6      | 101          |                           | 22     | UG/KG  | 0   |
| 30-005 | 30-3045 | 0      | 0      | n N          | Hexanone[2-]              | 22     | UG/KG  | U   |
| 36-005 | 36-3044 | U      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | U   |
| 36-005 | 36-3043 | 0      | 6      | IN           | Hexanone[2-]              | 20     | UG/KG  | U   |
| 36-005 | 36-3042 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | UJ  |
| 36-005 | 36-3042 | 0      | 6      | IN           | Hexanone[2-]              | 20     | UG/KG  | υ   |
| 36-005 | 36-3041 | 0      | 6      | IN           | Hexanone[2-]              | 20     | UG/KG  | ũ   |
| 36-005 | 36-3040 | 0      | 6      | IN           | Hexanone[2-]              | 20     | UG/KG  | ŭ   |
| 36-005 | 36-3030 | 0      | Â      | IN           | Hexanone[2-]              | 20     |        |     |
| 26 005 | 26 2029 | č      | 6      | 111          |                           | 20     | UG/KG  | U   |
| 00-005 | 30-3038 | U<br>A | Ö      | IN .         | nexanone[2-]              | 22     | UG/KG  | U   |
| 36-005 | 36-3037 | 0      | 6      | IN           | Hexanone[2-]              | 20     | UG/KG  | υ   |
| 36-005 | 36-3036 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | U   |
| 36-005 | 36-3035 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | υ   |
| 36-005 | 36-3034 | 0      | 6      | IN           | Hexanone[2-]              | 22     | UG/KG  | U   |
| 36-005 | 36-3034 | Ó      | 6      | IN           | Hexanone[2-1              | 20     |        |     |
| 36-005 | 36-3026 | ň      | ē      | iN           | Hevenone[2]               | 20     |        | 0   |
| 26.005 | 26 2020 | Č      | 6      | 114          |                           | 100    | UG/KG  | U   |
| 00-000 | 30-3025 | U      | o<br>c | IIN          | nexanone[2-]              | 20     | UG/KG  | U   |
| 30-005 | 36-3024 | U      | б      | IN           | Hexanone[2-]              | 24     | UG/KG  | U   |
| 36-005 | 36-3023 | 0      | 6      | IN           | Hexanone[2-]              | 20     | HC/KC  |     |

| 36-005 | 36-3022  | 0 | 6 | IN    | Hexanone[2-]           | 24     | UG/KG   | U    |
|--------|----------|---|---|-------|------------------------|--------|---------|------|
| 36-005 | 36-3021  | 0 | 6 | IN    | Hexanone[2-]           | 24     | UG/KG   | υ    |
| 36-005 | 36-3020  | 0 | 6 | IN    | Hexanone[2-]           | 22     | UG/KG   | U    |
| 36-005 | 36-3019  | 0 | 6 | IN    | Hexanone[2-]           | 22     | UG/KG   | U    |
| 30-005 | 00-0010  | 0 | 6 | INI   | Hexanone[2-]           |        | UG/KG   | Ð    |
| 30-005 | 30-3010  | 0 | 0 |       | Hexanone(2-)           | 22     | UG/KG   |      |
| 36-005 | 36-3018  | 0 | ю | 1N    | Hexanone(2-)           | 22     | UQ/KG   |      |
| 36-005 | 36-3051  | 0 | 6 | IN    | HMX                    | 0.164  | 00/0    |      |
| 36-005 | 36-3050  | 0 | 6 | IN    | HMX                    | 0.168  | UG/G    | U    |
| 36-005 | 36-3050  | 0 | 6 | IN    | HMX                    | 0.167  | UG/G    | U    |
| 36-005 | 36-3049  | 0 | 6 | IN    | HMX                    | 0.164  | UG/G    | υ    |
| 36-005 | 36-3048  | ō | 6 | IN    | HMX                    | 0.169  | UG/G    | U    |
| 30-005 | 26 2047  | õ | 6 | 151   | HMX                    | 0 167  | UG/G    | t    |
| 30-005 | 30-3047  | 0 | 0 |       |                        | 0.165  |         | Ŭ.   |
| 36-005 | 36-3046  | 0 | 0 | IN    |                        | 0.103  |         |      |
| 36-005 | 36-3045  | 0 | 6 | IN    | HMX                    | 0.172  | UG/G    | 0    |
| 36-005 | 36-3044  | 0 | 6 | IN    | HMX                    | 0.167  | UG/G    | U    |
| 36-005 | 36-3043  | 0 | 6 | IN    | HMX                    | 0.165  | UG/G    | U    |
| 36-005 | 36-3042  | 0 | 6 | IN    | HMX                    | 0.167  | UG/G    | U    |
| 36-005 | 36-3042  | 0 | 6 | IN    | HMX                    | 0.167  | UG/G    | U    |
| 36-005 | 36-3041  | 0 | 6 | IN    | HMX                    | 0.165  | UG/G    | U    |
| 26 005 | 26 2040  | õ | 6 | IN    | HMX                    | 0 167  | UG/G    | U    |
| 30-005 | 30-3040  | õ | e | IN    | HNAY                   | 0 165  | LIG/G   | Ū.   |
| 36-005 | 36-3039  | 0 | 0 | IN    |                        | 0.165  | UG/G    |      |
| 36-005 | 36-3038  | 0 | 6 | IIN   |                        | 0.100  | 00/0    |      |
| 36-005 | 36-3037  | 0 | 6 | IN    | HMX                    | 0.165  | 00/0    |      |
| 36-005 | 36-3036  | 0 | 6 | IN    | нмх                    | 0.166  | UG/G    | U    |
| 36-005 | 36-3035  | 0 | 6 | IN    | HMX                    | 0.17   | UG/G    | U    |
| 36-005 | 36-3034  | 0 | 6 | IN    | HMX                    | 0.166  | UG/G    | U    |
| 36-005 | 36-3034  | 0 | 6 | IN    | HMX                    | 0.166  | UG/G    | υ    |
| 36-005 | 36-3026  | ñ | 6 | IN    | нмх                    | 0.67   | UG/G    | U    |
| 36-005 | 26 2025  | ő | 6 | IN    | HMX                    | 0 164  | UG/G    | U    |
| 36-005 | 30-3025  | 0 | 6 | IN    |                        | 0.165  | UG/G    | ŭ    |
| 36-005 | 36-3024  | 0 | 6 | HN    |                        | 0.105  |         |      |
| 36-005 | 36-3023  | 0 | 6 | IN    | HMX                    | 0.166  |         |      |
| 36-005 | 36-3022  | 0 | 6 | IN    | HMX                    | 0.165  | UG/G    | 0    |
| 36-005 | 36-3021  | 0 | 6 | IN    | HMX                    | 0.165  | UG/G    | U    |
| 36-005 | 36-3020  | 0 | 6 | IN    | HMX                    | 0.165  | UG/G    | U    |
| 36-005 | 36-3019  | 0 | 6 | IN    | HMX                    | 0.165  | UG/G    | U    |
| 36-005 | 36-3018  | 0 | 6 | IN    | HMX                    | 0.164  | UG/G    | U    |
| 36-005 | 36-3018  | 0 | 6 | IN    | НМХ                    | 0.165  | UG/G    | U    |
| 26.005 | 26-2051  | Ő | 6 | IN    | Indeno(1.2.3-cd)pyrene | 350    | UG/KG   | Ū    |
| 36-005 | 30-3051  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 360    | UG/KG   | ŭ    |
| 36-005 | 36-3050  | 0 | 0 | IN    | Indeno(1,2,3-cd)pyrene | 350    |         |      |
| 36-005 | 36-3050  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 350    |         |      |
| 36-005 | 36-3049  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 340    | UG/KG   | U    |
| 36-005 | 36-3048  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 360    | UG/KG   | U    |
| 36-005 | 36-3047  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 390    | UG/KG   | U    |
| 36-005 | 36-3046  | 0 | 6 | 1N    | Indeno(1,2,3-cd)pyrene | 360    | UG/KG   | U    |
| 36-005 | 36-3045  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 380    | UG/KG   | U    |
| 36-005 | 36-3044  | 0 | 6 | IN    | Indeno(1.2.3-cd)pyrene | 380    | UG/KG   | U    |
| 26 005 | 36-3043  | õ | ē | IN    | Indeno(1,2,3-cd)pyrene | 360    | UG/KG   | U    |
| 30-005 | 26 2042  | 0 | e | INI   | Indene(1,2,3-cd)pyrene | 350    |         | , ii |
| 36-005 | 30-3042  | 0 | 0 | HN IN | Indeno(1,2,3-cd)pyrene | 340    | UG/KG   |      |
| 36-005 | 36-3042  | 0 | ь | IN    | indeno(1,2,3-cu)pyrene | 340    |         |      |
| 36-005 | 36-3041  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 350    | UG/KG   | 0    |
| 36-005 | 36-3040  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 350    | UG/KG   | U    |
| 36-005 | 36-3039  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 340    | UG/KG   | U    |
| 36-005 | 36-3038  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 360    | UG/KG   | U    |
| 36-005 | 36-3037  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 350    | UG/KG   | U    |
| 36-005 | 36-3036  | 0 | 6 | IN    | Indeno(1.2.3-cd)pyrene | 340    | UG/KG   | υ    |
| 00-005 | 26 2025  | õ | 6 | IN    | Indeno(1,2,3-cd)ovrene | 350    | UG/KG   | 1    |
| 30-005 | 30-3035  | 0 | 0 | 114   | Indene(1,2,3,ed)pyrene | 350    | UG/KG   |      |
| 36-005 | 36-3034  | 0 | 0 | IIN   | Indeno(1,2,3-cd)pyrene | 350    |         |      |
| 36-005 | 36-3034  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 350    | UG/KG   |      |
| 36-005 | 36-3026  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 140000 | UG/KG   | U    |
| 36-005 | 36-3025  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 360    | UG/KG   | U    |
| 36-005 | 36-3024  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 400    | UG/KG   | υ    |
| 36-005 | 36-3023  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 370    | UG/KG   | U    |
| 36-005 | 36-3022  | 0 | 6 | IN    | Indeno(1.2.3-cd)pyrene | 360    | UG/KG   | υ    |
| 26 005 | 26 2021  | ñ | ē | IN    | Indeno(1,2,3-cd)pyrene | 400    | UG/KG   | u    |
| 30-005 | 00-0021  | 0 | 6 | jki   | Indono(1.2.2.od)ovrono | 370    |         | U U  |
| 36-005 | 36-3020  | U | 0 | IN    |                        | 370    |         |      |
| 36-005 | 36-3019  | 0 | 6 | IN    | indeno(1,2,3-cd)pyrene | 370    | UG/KG   | U    |
| 36-005 | 36-3018  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 350    | UG/KG   | υ    |
| 36-005 | 36-3018  | 0 | 6 | IN    | Indeno(1,2,3-cd)pyrene | 370    | UG/KG   | U    |
| 36-005 | 36-3051  | 0 | 6 | IN    | lodomethane            | 5      | UG/KG   | U    |
| 36-005 | 36-3050  | ñ | 6 | IN    | lodomethane            | 6      | UG/KG   | U    |
| 36.005 | 36-3050  | ñ | 6 | [NI   | lodomethane            | e<br>e | UG/KG   | ň    |
| 30-005 | 00-00-00 | 0 | ~ | 111   | Indomethere            | 6      | HGKG    |      |
| 36-005 | 36-3049  | U | 6 | IIN   | rocometnane            | ō      | Jana    | 0    |
| -      |          |   | - |       | 1                      | -      | 110/1/0 |      |
| 36-005 | 36-3048  | 0 | 6 | IN    | lodomethane            | 6      | UG/KG   | U    |

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| 36-005 | 36-3046 | 0  | 6   | IN        | Iodomethane | 6     | LIG/KG  | 11     |
|--------|---------|----|-----|-----------|-------------|-------|---------|--------|
| 36.005 | 26 2045 | 0  | c C | in i      | lodomethane | 6     | UG/KG   |        |
| 30-005 | 30-3043 | 0  | 0   | 91 N      | ladamatha   | 8     |         |        |
| 36-005 | 36-3044 | 0  | 6   | IN        | lodometnane | б     | UG/KG   | U      |
| 36-005 | 36-3043 | 0  | 6   | IN        | Iodomethane | 5     | UG/KG   | U      |
| 36-005 | 36-3042 | 0  | 6   | IN        | lodomethane | 6     | UG/KG   | υ      |
| 36-005 | 36-3042 | 0  | 6   | IN        | lodomethane | 5     | UG/KG   | U      |
| 36-005 | 36-3041 | 0  | 6   | IN        | lodomethane | 5     | UG/KG   | U      |
| 36-005 | 36-3040 | 0  | 6   | IN        | lodomethane | 5     | UG/KG   | ū      |
| 26 005 | 26 2020 | ő  | é   | IN        | lodomothano | 5     | UG/KG   |        |
| 30-005 | 30-3039 | 0  | 0   | 111       | locomethane | 5     |         | 0      |
| 36-005 | 36-3038 | 0  | 6   | IN        | locometnane | 6     | UG/KG   | U      |
| 36-005 | 36-3037 | 0  | 6   | IN        | iodomethane | 5     | UG/KG   | U      |
| 36-005 | 36-3036 | 0  | 6   | IN        | Iodomethane | 6     | UG/KG   | U      |
| 36-005 | 36-3035 | 0  | 6   | IN        | lodomethane | 6     | UG/KG   | U      |
| 36-005 | 36-3034 | 0  | 6   | IN        | iodomethane | 6     | UG/KG   |        |
| 26 005 | 26 2024 | õ  | 6   | IN        | lodomothano | 5     | UG/KG   |        |
| 30-005 | 30-3034 | 0  | 0   | IN        | ladamathana | 5     |         | 0      |
| 36-005 | 36-3026 | 0  | 6   | IN        | lodometnane | 25    | UG/KG   | U      |
| 36-005 | 36-3025 | 0  | 6   | IN        | lodomethane | 5     | UG/KG   | U      |
| 36-005 | 36-3024 | 0  | 6   | IN        | lodomethane | 6     | UG/KG   | U      |
| 36-005 | 36-3023 | 0  | 6   | IN        | lodomethane | 6     | UG/KG   | U      |
| 36-005 | 36-3022 | 0  | 6   | IN        | Iodomethane | 6     | LIG/KG  | Ú.     |
| 26 005 | 26 2021 | õ  | e   | INI       | Indomethana | 6     | UC/KC ` | . ŭ    |
| 30-005 | 30-3021 | 0  | 0   |           | lodomethane | 0     | UG/KG   | 0      |
| 36-005 | 36-3020 | U  | 6   | IN        | lodometnane | 6     | UG/KG   | U      |
| 36-005 | 36-3019 | 0  | 6   | IN        | lodomethane | 6     | UG/KG   | U      |
| 36-005 | 36-3018 | 0  | 6   | IN        | Iodomethane | 6     | UG/KG   | υ      |
| 36-005 | 36-3018 | 0  | 6   | IN        | lodomethane | 6     | UG/KG   | υ      |
| 36-005 | NΔ      |    |     |           | Iron        | 19100 | MG/KG   | -      |
| 36 005 | 26 2051 | 0  | 6   | IN        | Iron        | 4220  | MC/KC   |        |
| 30-005 | 30-3051 | 0  | 0   | IN        | iron        | 4320  | MG/KG   |        |
| 36-005 | 36-3050 | U  | 6   | IN        | iron        | 8770  | MG/KG   |        |
| 36-005 | 36-3050 | 0  | 6   | IN        | Iron        | 9030  | MG/KG   |        |
| 36-005 | 36-3049 | 0  | 6   | IN        | Iron        | 5530  | MG/KG   |        |
| 36-005 | 36-3048 | 0  | 6   | IN        | Iron        | 13200 | MG/KG   |        |
| 36-005 | 36-3047 | Ō  | 6   | IN        | Iron        | 7980  | MG/KG   |        |
| 26 005 | 26 2046 | õ  | č   | IN        | Iren        | 6860  | MOKO    |        |
| 30-005 | 30-3040 | 0  | 0   | 11.1      | li Un       | 0000  | MG/KG   |        |
| 36-005 | 36-3045 | 0  | 6   | IN        | Iron        | 12300 | MG/KG   |        |
| 36-005 | 36-3044 | 0  | 6   | 1N        | Iron        | 8780  | MG/KG   |        |
| 36-005 | 36-3043 | 0  | 6   | IN        | Iron        | 6620  | MG/KG   |        |
| 36-005 | 36-3042 | 0  | 6   | IN        | Iron        | 6560  | MG/KG   |        |
| 36-005 | 36-3042 | 0  | 6   | IN        | iron        | 7760  | MG/KG   |        |
| 26 005 | 26 2041 | ů  | é   | INI       | Iron        | 11100 | MORE    |        |
| 30-005 | 30-3041 | 0  | 0   | in n      | lion        | 11100 | MG/KG   |        |
| 36-005 | 36-3040 | 0  | 6   | IN        | Iron        | 9060  | MG/KG   |        |
| 36-005 | 36-3039 | 0  | 6   | IN        | Iron        | 8740  | MG/KG   |        |
| 36-005 | 36-3038 | 0  | 6   | IN        | Iron        | 11200 | MG/KG   |        |
| 36-005 | 36-3037 | 0  | 6   | IN        | Iron        | 11900 | MG/KG   |        |
| 36-005 | 36-3036 | 0  | 6   | IN        | Iron        | 12100 | MG/KG   |        |
| 36-005 | 36-3035 | 0  | â   | IN        | Iron        | 13200 | MG/KG   |        |
| 30-005 | 00-0004 | 0  | 0   | NN INI    |             | 13200 | MG/KG   |        |
| 36-005 | 36-3034 | 0  | 0   | IIN       | Iron        | 8320  | MG/KG   |        |
| 36-005 | 36-3034 | 0  | 6   | IN        | iron        | 9490  | MG/KG   |        |
| 36-005 | 36-3026 | 0  | 6   | IN        | iron        | 8000  | MG/KG   |        |
| 36-005 | 36-3025 | 0  | 6   | IN        | Iron        | 7200  | MG/KG   | J      |
| 36-005 | 36-3024 | 0  | 6   | IN        | Iron        | 12700 | MG/KG   |        |
| 36-005 | 36-3023 | ō  | 6   | IN        | Iron        | 0820  | MG/KG   | ,<br>I |
| 26.005 | 26 2022 | õ  | 6   | INI       | lion        | 4090  | MC/KC   | ,<br>, |
| 30-005 | 00-0022 | 0  | 0   |           |             | 4380  | MG/KG   | J      |
| 36-005 | 36-3021 | 0  | 6   | IN        | Iron        | 8800  | MG/KG   | J      |
| 36-005 | 36-3020 | 0  | 6   | IN        | Iron        | 9.2   | MG/KG   | J      |
| 36-005 | 36-3019 | 0  | 6   | IN        | Iron        | 7350  | MG/KG   | J      |
| 36-005 | 36-3018 | 0  | 6   | IN        | Iron        | 9340  | MG/KG   | J      |
| 36-005 | 36-3018 | 0  | 6   | IN        | Iron        | 6510  | MG/KG   | i      |
| 36-005 | 36-3051 | ů. | 6   | IN        | Isophorope  | 350   | LIGIKG  | ŭ      |
| 26.005 | 06 0050 | Š  | °   | IN I      | laasharaa   | 550   |         |        |
| 30-005 | 30-3050 | 0  | 0   | IN        | Isophorone  | 360   | UG/KG   | U      |
| 36-005 | 36-3050 | 0  | 6   | IN        | Isophorone  | 350   | UG/KG   | U      |
| 36-005 | 36-3049 | 0  | 6   | IN        | Isophorone  | 340   | UG/KG   | U      |
| 36-005 | 36-3048 | 0  | 6   | IN        | Isophorone  | 360   | UG/KG   | υ      |
| 36-005 | 36-3047 | 0  | 6   | IN        | Isophorone  | 390   | LIG/KG  | ш      |
| 36-005 | 36-3046 | 0  | 6   | IN        | Isonhorone  | 2000  |         |        |
| 26 005 | 26 204E | °  | 5   | IN        | laanhorono  | 000   |         |        |
| 00-005 | 00-0040 | 0  | 0   | 111       | isophorone  | 380   | UG/KG   | U      |
| 36-005 | 36-3044 | 0  | 6   | IN        | Isophorone  | 380   | UG/KG   | U      |
| 36-005 | 36-3043 | 0  | 6   | IN        | Isophorone  | 360   | UG/KG   | U      |
| 36-005 | 36-3042 | 0  | 6   | IN        | Isophorone  | 350   | UG/KG   | U      |
| 36-005 | 36-3042 | 0  | 6   | IN        | Isophorone  | 340   | UG/KG   |        |
| 36-005 | 36-3041 | ñ  | Â   | IN        | Isophorope  | 350   | UG/KC   |        |
| 36.005 | 26-2040 | ő  | 6   | 114       | leaphoren   | 350   |         |        |
| 30-005 | 30-3040 | 0  | 0   | IIN<br>IN | isophorone  | 350   | UG/KG   | U      |
| 36-005 | 36-3039 | υ  | 6   | IN        | Isophorone  | 340   | UG/KG   | U      |
| 36-005 | 36-3038 | 0  | 6   | IN        | Isophorone  | 360   | UG/KG   | U      |
| 36-005 | 36-3037 | 0  | 6   | iN        | Isophorone  | 350   | UG/KG   | U      |

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| 36-005 | 36-3036  | 0 | 6   | IN         | Isophorone              | 340    | UG/KG  | U    |
|--------|----------|---|-----|------------|-------------------------|--------|--------|------|
| 26 005 | 26 2025  | 0 | 6   | INI        | Isophoropo              | 250    | UG/KG  | U.   |
| 30-005 | 30-3035  | U | 0   | IIN        | isophorone              | 350    | UCIKO  | ŭ    |
| 36-005 | 36-3034  | 0 | 6   | IN         | Isophorone              | 350    | UG/KG  | 0    |
| 36-005 | 36-3034  | 0 | 6   | IN         | Isophorone              | 350    | UG/KG  | U    |
| 26 005 | 26 2026  | 0 | 6   | INI        | Isophorene              | 140000 | LIG/KG | D    |
| 30-005 | 30-3020  | U | 0   | IIN        | Isophotone              | 140000 | UQ#KQ  |      |
| 36-005 | 36-3025  | 0 | 6   | IN         | Isophorone              | 360    | UG/KG  | U    |
| 36-005 | 36-3024  | 0 | 6   | IN         | Isophorone              | 400    | UG/KG  | U    |
| 00 000 | 00 0021  | 0 | ŝ   |            | loophoren -             | 270    |        | 11   |
| 36-005 | 36-3023  | 0 | ю   | IN         | isophorone              | 370    | UG/KG  | 0    |
| 36-005 | 36-3022  | 0 | 6   | IN         | Isophorone              | 360    | UG/KG  | U    |
| 26 005 | 26-2021  | 0 | 6   | IN         | Isonhorone              | 400    | UG/KG  | 11   |
| 30-005 | 30-3021  | 0 | 0   |            | isophorone              | 400    | UQ/KQ  |      |
| 36-005 | 36-3020  | 0 | 6   | IN         | Isophorone              | 370    | UG/KG  | U    |
| 36-005 | 36-3019  | 0 | 6   | IN         | Isophorone              | 370    | UG/KG  | υ    |
| 00 005 | 26 2019  | 0 | Ē   | IN         | Iconhorono              | 350    | LIG/KG | 11   |
| 30-005 | 30-3010  | 0 | 0   | H N        | isophorone              | 000    | UQ/KQ  |      |
| 36-005 | 36-3018  | 0 | 6   | IN         | Isophorone              | 370    | UG/KG  | U    |
| 36-005 | 36-3051  | 0 | 6   | IN         | Isopropvibenzene        | 5      | UG/KG  | U    |
| 26 005 | 26 2050  | 0 | 6   | INI        | Isopropylbenzene        | 6      | UG/KG  | 11   |
| 30-005 | 30-3050  | 0 | 0   | 11.1       | isopiopyiberizerie      | 0      |        |      |
| 36-005 | 36-3050  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | 0    |
| 36-005 | 36-3049  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | υ    |
| 26.005 | 26 2049  | 0 | e   | <b>INI</b> | Isopropylbanzapa        | 6      | LIG/KG | 11.1 |
| 30-005 | 30-3046  | U | 0   | H N        | isopiopyidenzene        | 0      |        | 00   |
| 36-005 | 36-3047  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | U    |
| 36-005 | 36-3046  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | υ    |
| 00 000 | 26 2045  | 0 | e e | INI        | Isopropulbonzono        | 6      | LIG/KG | 111  |
| 30-005 | 30-3045  | U | 0   | H N        | isopropyiberizerie      | ů,     |        |      |
| 36-005 | 36-3044  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | UJ   |
| 36-005 | 36-3043  | 0 | 6   | IN         | isopropylbenzene        | 5      | UG/KG  | υ    |
| 20 000 | 26 2040  | 0 | Ē   | IN         | Isopropulbenzene        | 6      | UG/KG  |      |
| 30-005 | 30-3042  | U | 0   | IN         | isopiopyibelizelle      | 0      | 00/100 | 00   |
| 36-005 | 36-3042  | 0 | 6   | IN         | Isopropylbenzene        | 5      | UG/KG  | 0J   |
| 36-005 | 36-3041  | 0 | 6   | IN         | Isopropylbenzene        | 5      | UG/KG  | υ    |
| 00 000 | 00 00 10 | õ | č   | 16.1       |                         | 5      | UG/KG  | - ú  |
| 36-005 | 30-3040  | 0 | 0   | IIN        | isopiopyidenzene        | 5      | UG/RG  |      |
| 36-005 | 36-3039  | 0 | 6   | IN         | Isopropylbenzene        | 5      | UG/KG  | U    |
| 36-005 | 36-3038  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | Ų    |
| 20 000 | 26 2027  | õ | Ē   | 151        | Isopropulbanzano        | 5      | LIG/KG | , ii |
| 30-005 | 30-3037  | 0 | 0   | IN         | isopiopyidenzene        | 5      |        |      |
| 36-005 | 36-3036  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | U    |
| 36-005 | 36-3035  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | υ    |
| 26 005 | 26 2024  | 0 | e e | IN         | isopropulbonzono        | 6      | LIG/KG |      |
| 30-005 | 30-3034  | U | 0   | IIN        | isopiopyidenzene        | 0      |        |      |
| 36-005 | 36-3034  | 0 | 6   | IN         | Isopropyibenzene        | 5      | UG/KG  | U    |
| 36-005 | 36-3026  | 0 | 6   | IN         | Isopropylbenzene        | 25     | UG/KG  | υ    |
| 26-005 | 26-2025  | Ō | 6   | IN         | Isopropylbenzene        | 5      | UG/KG  | Ð    |
| 30-003 | 30-3025  | 0 |     |            | isopropyiberizerie      | ě      | UQ/KQ  | ŭ    |
| 36-005 | 36-3024  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | U    |
| 36-005 | 36-3023  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | ŲJ   |
| 26.005 | 26 2022  | õ | Ē   | IN         | Isopropylbenzene        | 6      | UG/KG  | 11   |
| 30-005 | 30-3022  | U | 0   | IIN        | Isopropyiberizerie      | 0      | 00/100 |      |
| 36-005 | 36-3021  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | UJ   |
| 36-005 | 36-3020  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | UJ   |
| 00 000 | 26 2010  | 0 | ē   | INI        | loopropulbonzono        | ĥ      | LIG/KG | 11   |
| 30-005 | 30-3019  | U | 0   | IIN        | isopropyidenzene        | 0      | Ud/Kd  |      |
| 36-005 | 36-3018  | 0 | 6   | IN         | Isopropylbenzene        | 6      | UG/KG  | U    |
| 36-005 | 36-3018  | 0 | 6   | IN         | isopropyibenzene        | 6      | UG/KG  | U    |
| 00 000 | 00 0051  | - | ē   | INF        | loopropultoluopo[4])    | Ē      | LIG/KG | 11   |
| 30-005 | 30-3051  | U | o   | IIN        | isopropyiloidene[4-]    | 5      | UG/KG  | 0    |
| 36-005 | 36-3050  | 0 | 6   | IN         | Isopropyltoluene[4-]    | . 6    | UG/KG  | U    |
| 36-005 | 36-3050  | 0 | 6   | IN         | isopropyltoluene[4-]    | 6      | UG/KG  | U    |
| 00-000 | 00 0000  | č | č   |            | hoopen and how and find | c c    |        | ň    |
| 36-005 | 36-3049  | U | D   | IIN        | Isopropyitoiuene[4-]    | 0      | UG/KG  | 0    |
| 36-005 | 36-3048  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | UJ   |
| 36-005 | 36-3047  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | U    |
| 00 000 | 00 00 11 | č | õ   |            |                         | -      |        |      |
| 36-005 | 36-3046  | U | o   | IIN        | isopropyitoitierie[4-]  | 0      | Ud/Kd  | 0    |
| 36-005 | 36-3045  | 0 | 6   | IN         | Isopropyitoluene[4-]    | 6      | UG/KG  | UJ   |
| 36-005 | 36-3044  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | U.I  |
| 00 000 | 00 00 40 | Š | ě   | 16.1       | lean on the lange of A  | Ē      | LIG/KC | 11   |
| 36-005 | 36-3043  | 0 | Ð   | lin        | Isopropyiloidene[4-]    | 5      | Jaka   | 0    |
| 36-005 | 36-3042  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | UJ   |
| 36-005 | 36-3042  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 5      | UG/KG  | UJ   |
| 00 000 | 00 00 12 | õ | č   | 16.1       | loopropyteluono[4]      | -<br>- | UC/KC  | 11   |
| 36-005 | 30-3041  | U | 0   | IIN        | isopiopyiloidene[4-]    | 5      | Jaka   | 0    |
| 36-005 | 36-3040  | 0 | 6   | IN         | isopropyitoluene[4-]    | 5      | UG/KG  | U    |
| 36-005 | 36-3030  | ٥ | 6   | IN         | IsonropyItoluene[4-]    | 5      | UG/KG  | U    |
| 00-000 | 00-0000  | 0 | ő   |            |                         | 0      | LIGIKO | ŭ    |
| 36-005 | 36-3038  | 0 | ь   | IIN        | isopropyitoiuene[4-]    | 0      | UG/KG  | U    |
| 36-005 | 36-3037  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 5      | UG/KG  | υ    |
| 36-005 | 36-3036  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | U    |
| 00-000 | 00-0000  | 0 | ~   | 141        |                         | 0      |        |      |
| 36-005 | 36-3035  | 0 | 6   | IN         | isopropyitoluene[4-]    | 6      | UG/KG  | U    |
| 36-005 | 36-3034  | 0 | 6   | IN         | Isopropyitoluene[4-]    | 6      | UG/KG  | U    |
| 26 005 | 36 3034  | 0 | â   | IN         | Isopropyltoluene[4-]    | F      | HG/KG  | Ū.   |
| 30-005 | 30-3034  | U | o   | iiN .      | isopropyitoluerie[4*]   | 5      |        |      |
| 36-005 | 36-3026  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 25     | UG/KG  | U    |
| 36-005 | 36-3025  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 5      | UG/KG  | U    |
| 00 000 | 00 0020  | ž | č   | 16.1       | loopropulations[4]      | 6      | LIG/KC |      |
| 30-005 | 30-3024  | U | D   | HN         | isopropyitoluene[4-]    | D      | UG/KG  | 0    |
| 36-005 | 36-3023  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | UJ   |
| 36-005 | 36-3022  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | 11   |
| 00-005 | 00-0022  | č | č   |            | loopropultatuese [4]    | 6      |        |      |
| 36-005 | 36-3021  | U | 6   | iN         | isopropyitoiuene[4-]    | Ø      | UG/KG  | 03   |
| 36-005 | 36-3020  | 0 | 6   | IN         | Isopropyltoluene[4-]    | 6      | UG/KG  | UJ   |
| 36.005 | 36-2010  | Ň | 6   | IN         | Isopronvitoluene[4-]    | 6      | UG/KG  | 11   |
| 00.000 | 00-0019  | v |     |            | inchiobius annotal      | 0      |        | 5    |

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| 36-005 | 36-3018   | 0      | 6   | IN     | Isopropyltoluene[4-]   | 6    | UG/KG   | U   |
|--------|-----------|--------|-----|--------|------------------------|------|---------|-----|
| 00-005 | 20 2010   | 0      | č   | 1.4    | loopropylioluono[1]    | 6    | LIG/KG  | U   |
| 36-005 | 30-3018   | 0      | 0   | IIN    | Isopropytoidene[4-]    | 0    | MOKO    | -   |
| 36-005 | NA        |        |     |        | Lead                   | 4340 | MG/KG   |     |
| 36-005 | 36-3051   | 0      | 6   | IN     | Lead                   | 5.3  | MG/KG   |     |
| 36.005 | 36-3050   | 0      | 6   | INF    | Lead                   | 11 7 | MG/KG   |     |
| 30-003 | 00-0000   | U      | 0   | IIN    | Leau                   | 11.7 | 100/100 |     |
| 36-005 | 36-3050   | 0      | 6   | IN     | Lead                   | 12.8 | MG/KG   |     |
| 36-005 | 36-3049   | 0      | 6   | IN     | Lead                   | 5.5  | MG/KG   |     |
| 36-005 | 36-3048   | Ō      | 6   | INI    | Lead                   | 12.5 | MG/KG   |     |
| 00-000 | 00-0040   | 0      | 0   | 1114   | Leau                   | 12.5 | MG/KG   |     |
| 36-005 | 36-3047   | 0      | 6   | IN     | Lead                   | 11.3 | MG/KG   |     |
| 36-005 | 36-3046   | 0      | 6   | IN     | Lead                   | 6.8  | MG/KG   |     |
| 36-005 | 36-3045   | 0      | 6   | INI    | Lood                   | 12.6 | MGIKG   |     |
| 00-000 | 30-3043   | 0      | 0   | IIN    | Leau                   | 13.0 | wa/ka   |     |
| 36-005 | 36-3044   | 0      | 6   | IN     | Lead                   | 13.9 | MG/KG   |     |
| 36-005 | 36-3043   | 0      | 6   | IN     | Lead                   | 8.2  | MG/KG   |     |
| 36-005 | 36-3042   | 0      | 6   | INI    | Lead                   | 7 4  | MG/KG   |     |
| 30-003 | 30-30-42. | 0      | 0   |        | Leau                   | 7.4  | Marka   |     |
| 36-005 | 36-3042   | 0      | 6   | IN     | Lead                   | 7.6  | MG/KG   |     |
| 36-005 | 36-3041   | 0      | 6   | IN     | Lead                   | 6.4  | MG/KG   |     |
| 26 005 | 26 2040   | 0      | Ē   | INI    | Lood                   | 10.0 | MOKO    |     |
| 30-005 | 30-3040   | 0      | 0   | IIN    | Leau                   | 10.2 | MG/KG   |     |
| 36-005 | 36-3039   | 0      | 6   | IN     | Lead                   | 9.4  | MG/KG   |     |
| 36-005 | 36-3038   | 0      | 6   | IN     | Lead                   | 117  | MG/KG   |     |
| 20 005 | 00 0000   | 0      | Ē   | INI    | Lood                   | 14.1 | MORE    |     |
| 30-005 | 30-3037   | 0      | 0   | IIN    | Leau                   | 14.1 | MG/NG   |     |
| 36-005 | 36-3036   | 0      | 6   | IN     | Lead                   | 6.3  | MG/KG   |     |
| 36-005 | 36-3035   | ٥      | 6   | IN     | Lead                   | 13.3 | MG/KG   |     |
| 00-000 | 00-0000   | ő      | ě   |        | Load                   | 10.0 | Marica  |     |
| 36-005 | 36-3034   | 0      | 6   | IN     | Lead                   | 12.4 | MG/KG   |     |
| 36-005 | 36-3034   | 0      | 6   | IN     | Lead                   | 10.1 | MG/KG   |     |
| 26 005 | 26 2026   | ō      | ĥ   | INI    | Lead                   | 10.6 | MG/KG   |     |
| 30-005 | 30-3020   | 0      | 0   | IIN    | Leau                   | 10.0 | wid/Kd  |     |
| 36-005 | 36-3025   | 0      | 6   | IN     | Lead                   | 11.1 | MG/KG   |     |
| 36-005 | 36-3024   | 0      | 6   | IN     | l ead                  | 9.6  | MG/KG   |     |
| 00 000 | 00 0024   | ő      | 0   |        | Loud land              | 00 5 | MORE    |     |
| 36-005 | 36-3023   | 0      | 6   | IN     | Lead                   | 20.5 | MG/KG   |     |
| 36-005 | 36-3022   | 0      | 6   | IN     | Lead                   | 11.7 | MG/KG   |     |
| 36-005 | 36-3021   | Λ      | 6   | IN     | Lead                   | 13   | MG/KG   |     |
| 30-003 | 30-3021   | 0      | 0   |        | Ecad                   | 10   | Marka   |     |
| 36-005 | 36-3020   | 0      | 6   | IN     | Lead                   | 9.2  | MG/KG   |     |
| 36-005 | 36-3019   | 0      | 6   | IN     | Lead                   | 20.3 | MG/KG   |     |
| 36 005 | 26 2019   | 0      | Ē   | INI    | Load                   | 8.9  | MG/KG   |     |
| 30-005 | 30-3010   | 0      | 0   | IFN    | Leau                   | 0.0  | WG/RG   |     |
| 36-005 | 36-3018   | 0      | 6   | IN     | Lead                   | 11.8 | MG/KG   |     |
| 36-005 | NA        |        |     |        | Magnesium              | 2690 | MG/KG   |     |
| 00 000 | 00.0051   | ^      | ~   | INI    | Magnosium              | 460  | NOKO    |     |
| 30-005 | 30-3051   | 0      | 0   | IIN    | Magnesium              | 400  | MG/KG   | 0   |
| 36-005 | 36-3050   | 0      | 6   | IN     | Magnesium              | 1560 | MG/KG   |     |
| 36-005 | 36-3050   | Ð      | 6   | IN     | Magnesium              | 1550 | MG/KG   |     |
| 00-005 | 00 0000   | 0      | ě   |        | Magricolani            | 1000 | Marica  |     |
| 36-005 | 36-3049   | 0      | 6   | IN     | Magnesium              | 387  | MG/KG   | U   |
| 36-005 | 36-3048   | 0      | 6   | IN     | Magnesium              | 2350 | MG/KG   |     |
| 26 005 | 26 2047   | Ó.     | ĥ   | INI    | Magnosium              | 1180 | MG/KG   |     |
| 30-005 | 30-3047   | 0      | 0   | 111    | Wagnesium              | 1160 | WG/NG   |     |
| 36-005 | 36-3046   | 0      | 6   | IN     | Magnesium              | 569  | MG/KG   | U   |
| 36-005 | 36-3045   | 0      | 6   | IN     | Magnesium              | 2820 | MG/KG   |     |
| 26 005 | 26 2044   | ō      | ē   | INI    | Magnacium              | 1250 | NOKO    |     |
| 30-005 | 30-3044   | 0      | 0   | 1114   | waynesium              | 1250 | WG/NG   |     |
| 36-005 | 36-3043   | 0      | 6   | IN     | Magnesium              | 562  | MG/KG   | U   |
| 36-005 | 36-3042   | 0      | 6   | IN     | Magnesium              | 1050 | MG/KG   |     |
| 00 000 | 00 00 40  | õ      | č   | 141    | Magnosium              | 1000 | MONO    |     |
| 36-005 | 36-3042   | U      | D   | IN     | magnesium              | 1080 | MG/KG   |     |
| 36-005 | 36-3041   | 0      | 6   | • IN _ | Magnesium              | 1240 | MG/KG   |     |
| 36-005 | 36-3040   | Ο      | 6   | IN     | Magnesium              | 1240 | MG/KG   |     |
| 00 000 | 00 00 00  | õ      | č   | 141    | Magnoolum<br>Magnoolum | 1240 | Marita  |     |
| 36-005 | 36-3039   | 0      | 6   | IN     | Magnesium              | 1000 | MG/KG   |     |
| 36-005 | 36-3038   | 0      | 6   | IN     | Magnesium              | 1620 | MG/KG   |     |
| 36-005 | 36-3037   | Ω      | 6   | IN     | Magnesium              | 1480 | MG/KG   |     |
| 00 000 | 00 0007   | č      | č   | 18.5   | Magnoolum              | 1700 | Morriso |     |
| 30-005 | 30-3036   | U      | ю   | IN     | magnesium              | 1700 | MG/KG   |     |
| 36-005 | 36-3035   | 0      | 6   | IN     | Magnesium              | 2350 | MG/KG   |     |
| 36-005 | 36-3034   | n      | 6   | IN     | Magnesium              | 1460 | MG/KG   |     |
| 00 000 | 00 0004   | č      | č   | 1      | Magnoolum              | 100  | Morriso |     |
| 36-005 | 36-3034   | υ      | 6   | IN     | magnesium              | 1690 | MG/KG   |     |
| 36-005 | 36-3026   | 0      | 6   | IN     | Magnesium              | 1150 | MG/KG   |     |
| 36-005 | 36.3025   | 0      | 6   | INI    | Magnesium              | 562  | MG/KG   | 113 |
| 30-003 | 30-3023   | 0      | 0   |        | Wagnesium              | 502  | Marka   | 03  |
| 36-005 | 36-3024   | 0      | 6   | IN     | Magnesium              | 1060 | MG/KG   | ŲJ  |
| 36-005 | 36-3023   | 0      | 6   | IN     | Magnesium              | 1310 | MG/KG   | J   |
| 26 005 | 06 0000   | 0      | è   | IN I   | Magnanium              | 004  | NOKO    |     |
| 30-005 | 30-3022   | U      | U I | IN     | wagnesium              | 904  | WG/KG   | 00  |
| 36-005 | 36-3021   | 0      | 6   | IN     | Magnesium              | 990  | MG/KG   | UJ  |
| 36-005 | 36-3020   | 0      | 6   | IN     | Magnesium              | 925  | MG/KG   | 111 |
| 26 000 | 00 0020   | ~      | ~   | 16.1   | Magnoolum              | 525  | More    |     |
| 30-005 | 30-3019   | υ      | ь   | IN     | magnesium              | 946  | MG/KG   | UJ  |
| 36-005 | 36-3018   | 0      | 6   | IN     | Magnesium              | 1040 | MG/KG   | μJ  |
| 36-005 | 26.2019   | ,<br>O | e   | IN     | Magnesium              | 200  | MG/KG   | 111 |
| 00-005 | 30-3010   | 0      | 0   | 114    | Magnesium              | 123  | WG/KG   | 00  |
| 36-005 | NA        |        |     |        | Manganese              | 880  | MG/KG   |     |
| 36-005 | 36-3051   | 0      | 6   | IN     | Manganese              | 184  | MG/KG   |     |
| 00 000 | 00 0000   | ~      | ç   | 10.1   | Manganoso              | 007  | Marka   |     |
| 30-005 | 36-3050   | U      | 6   | IN     | manganese              | 350  | MG/KG   |     |
| 36-005 | 36-3050   | 0      | 6   | IN     | Manganese              | 330  | MG/KG   |     |
| 36-005 | 36-3040   | Δ      | 6   | INI    | Manganasa              | 202  | MG/KG   |     |
| 00-003 | 30-3049   | 0      | 0   | 111    | Manyanese              | 202  | WG/NG   |     |
| 36-005 | 36-3048   | 0      | 6   | IN     | Manganese              | 359  | MG/KG   |     |
| 36-005 | 36-3047   | 0      | 6   | IN     | Manganese              | 280  | MG/KG   |     |
| 00 000 | 00 0040   | č      | č   |        | Manganoso              | 200  | Monto   |     |
| 30-005 | 30-3040   | U      | o   | 1114   | wanganese              | 226  | MG/KG   |     |

| 36-005 | 36-3045 | 0        | 6      | IN   | Manganese               | 359    | MG/KG  |      |
|--------|---------|----------|--------|------|-------------------------|--------|--------|------|
| 36-005 | 36-3044 | 0        | 6      | IN   | Manganese               | 316    | MG/KG  |      |
| 36-005 | 36-3043 | 0        | 6      | IN   | Manganese               | 220    | MG/KG  |      |
| 36-005 | 36-3042 | õ        | 6      | IN   | Manganese               | 319    | MG/KG  |      |
| 30-005 | 30-3042 | 0        | 0      |      | Mariganese              | 319    | MO/KG  |      |
| 36-005 | 36-3042 | 0        | 6      | IN   | Manganese               | 300    | MG/KG  |      |
| 36-005 | 36-3041 | 0        | 6      | IN   | Manganese               | 252    | MG/KG  |      |
| 36-005 | 36-3040 | 0        | 6      | IN   | Manganese               | 274    | MG/KG  |      |
| 36-005 | 36-3039 | 0        | 6      | IN   | Manganese               | 277    | MG/KG  |      |
| 36-005 | 36-3038 | Ó        | 6      | IN   | Manganese               | 283    | MG/KG  |      |
| 00 005 | 26 2027 | 0        | é      | 151  | Manganoso               | 464    | MG/KG  |      |
| 36-005 | 36-3037 | U        | b      | IN   | Manganese               | 404    | MG/KG  |      |
| 36-005 | 36-3036 | 0        | 6      | IN   | Manganese               | 316    | MG/KG  |      |
| 36-005 | 36-3035 | 0        | 6      | IN   | Manganese               | 280    | MG/KG  |      |
| 36-005 | 36-3034 | 0        | 6      | IN   | Manganese               | 286    | MG/KG  |      |
| 36-005 | 36-3034 | 0        | ê      | IN   | Mangapese               | 284    | MG/KG  |      |
| 30-005 | 26 2006 | 0        | 6      | IN   | Manganese               | 200    | MG/KG  |      |
| 36-005 | 36-3026 | 0        | 6      | IN   | Manganese               | 290    | MG/KG  |      |
| 36-005 | 36-3025 | 0        | 6      | IN   | Manganese               | 205    | MG/KG  |      |
| 36-005 | 36-3024 | 0        | 6      | IN   | Manganese               | 354    | MG/KG  |      |
| 36-005 | 36-3023 | 0        | 6      | IN   | Manganese               | 365    | MG/KG  |      |
| 36-005 | 36-3022 | 0        | 6      | IN   | Manganese               | 268    | MG/KG  |      |
| 36-005 | 36-3021 | Ő        | é      | IN   | Manganese               | 374    | MG/KG  |      |
| 30-005 | 00-0021 | 0        | 0      | 11.1 | Manganese               | 074    | MORG   |      |
| 36-005 | 36-3020 | 0        | 6      | IIN  | Manganese               | 335    | MG/KG  |      |
| 36-005 | 36-3019 | 0        | 6      | IN   | Manganese               | 354    | MG/KG  |      |
| 36-005 | 36-3018 | 0        | 6      | IN   | Manganese               | 355    | MG/KG  |      |
| 36-005 | 36-3018 | 0        | 6      | IN   | Manganese               | 256    | MG/KG  |      |
| 36-005 | NΔ      | · ·      | Ū.     |      | Mercury                 | 13     | MG/KG  |      |
| 30-005 | 00.0054 | 0        | ~      | 18.1 | Mercury                 | 1.5    | Marka  |      |
| 36-005 | 30-3051 | U        | D      | IN   | Mercury                 | 0.05   | MG/KG  | 0    |
| 36-005 | 36-3050 | 0        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | U    |
| 36-005 | 36-3050 | 0        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | U    |
| 36-005 | 36-3049 | 0        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | U    |
| 36-005 | 36-3048 | Ō        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | U.   |
| 00-005 | 00 0040 | õ        | č      | 141  | Manaury                 | 0.00   | MC/KC  | ň    |
| 36-005 | 36-3047 | 0        | 6      | IIN  | Mercury                 | 0.08   | MG/KG  |      |
| 36-005 | 36-3046 | 0        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | U    |
| 36-005 | 36-3045 | 0        | 6      | IN   | Mercury                 | 0.06   | MG/KG  | U    |
| 36-005 | 36-3044 | 0        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | υ    |
| 36-005 | 36-3043 | 0        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | U    |
| 36-005 | 36-3042 | 0        | 6      | IN   | Morcup                  | 0.05   | MG/KG  | . ŭ  |
| 30-005 | 00-0042 | ů,       | 0      | 10.1 | Mercury                 | 0.05   | Marka  |      |
| 36-005 | 36-3042 | 0        | 0      | 115  | Mercury                 | 0.05   | MG/KG  | 0    |
| 36-005 | 36-3041 | 0        | 6      | IN   | Mercury                 | 0.05   | MG/KG  | U    |
| 36-005 | 36-3040 | 0        | 6      | IN   | Mercury                 | 0.07   | MG/KG  | U    |
| 36-005 | 36-3039 | 0        | 6      | IN   | Mercury                 | 0.08   | MG/KG  | U    |
| 36-005 | 36-3038 | Ō        | 6      | IN   | Mercury                 | 0.06   | MG/KG  | - Ŭ  |
| 26 005 | 26 2027 | õ        | é      | 15   | Moroury                 | 0.00   | MG/KG  | ŭ    |
| 36-005 | 30-3037 | 0        | 0      | 1114 | Mercury                 | 0.09   | NG/KG  |      |
| 36-005 | 36-3036 | 0        | 6      | IN   | Mercury                 | 0.06   | MG/KG  | U    |
| 36-005 | 36-3035 | 0        | 6      | IN   | Mercury                 | 0.07   | MG/KG  | U    |
| 36-005 | 36-3034 | 0        | 6      | IN   | Mercury                 | 0.07   | MG/KG  | U    |
| 36-005 | 36-3034 | 0        | 6      | IN   | Mercury                 | 0.09   | MG/KG  | U    |
| 36 005 | 26 2026 | ñ        | é      | INI  | Moroup                  | 0.05   | MG/KG  | 11   |
| 30-005 | 30-3020 | U .      | 0      | 115  | Mercury                 | 0.05   | WG/KG  |      |
| 36-005 | 36-3025 | 0        | 6      | IN   | mercury                 | 0.08   | MG/KG  | U    |
| 36-005 | 36-3024 | 0        | 6      | IN   | Mercury                 | 0.09   | MG/KG  | U    |
| 36-005 | 36-3023 | 0        | 6      | IN   | Mercury                 | 0.09   | MG/KG  | U    |
| 36-005 | 36-3022 | 0        | 6      | IN   | Mercury                 | 0.09   | -MG/KG | U    |
| 26 005 | 26-2021 | 0        | 6      | INI  | Marcuny                 | 0.1    | MG/KG  | ŭ    |
| 00-000 | 00-0021 | 0        | 0      | 111  | Mercury                 | 0.1    | MO/KG  |      |
| 36-005 | 36-3020 | U        | ь      | IN   | Mercury                 | 0.09   | MG/KG  | U    |
| 36-005 | 36-3019 | 0        | 6      | IN   | Mercury                 | 0.1    | MG/KG  | U    |
| 36-005 | 36-3018 | 0        | 6      | IN   | Mercury                 | 0.07   | MG/KG  | U    |
| 36-005 | 36-3018 | 0        | 6      | IN   | Mercury                 | 0.09   | MG/KG  | υ    |
| 36-005 | 36-3051 | 0        | ē      | IN   | Methyl-2-pentapone[4-]  | 20     | LIG/KG | Ĥ    |
| 00-005 | 00-0001 | 0        | č      | 151  | Methyl 2 pentanone(4)   | 20     |        |      |
| 36-005 | 36-3050 | 0        | Ð      | IIN  | Methyl-2-pentanone[4-]  | 22     | UG/KG  | U    |
| 36-005 | 36-3050 | 0        | 6      | IN   | Methyi-2-pentanone[4-]  | 22     | UG/KG  | U    |
| 36-005 | 36-3049 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 22     | UG/KG  | U    |
| 36-005 | 36-3048 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 22     | UG/KG  | υ    |
| 36-005 | 36-3047 | 0        | 6      | IN   | Methyl-2-pentanone(4-)  | 24     | UG/KG  | - 11 |
| 00 000 | 20 2040 | õ        | e<br>e | INI  | Methyl 2 pentanene(1)   |        | Nerke  | ŭ    |
| 30-005 | 30-3040 | 0        | 0      | 111  | methyrz-pentanone(4-)   | 22     |        | U    |
| 36-005 | 36-3045 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 22     | UG/KG  | υ    |
| 36-005 | 36-3044 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 22     | UG/KG  | U    |
| 36-005 | 36-3043 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 20     | UG/KG  | U    |
| 36-005 | 36-3042 | n.       | 6      | IN   | Methyl-2-pentanone[4-]  | <br>99 | UG/KG  |      |
| 36 005 | 36 3040 | ň        | 2      | INI  | Mothyl_2_pontonono[4]   | 20     |        |      |
| 30-005 | 30-3042 | 0        | 0      | HN . | weny-z-pentanone(4-)    | 20     |        | U    |
| 36-005 | 36-3041 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 20     | UG/KG  | U    |
| 36-005 | 36-3040 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 20     | UG/KG  | U    |
| 36-005 | 36-3039 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 20     | UG/KG  |      |
| 36-005 | 36-3038 | n<br>N   | 6      | IN   | Methyl-2-pentanonel4-1  |        | LIG/KG | 11   |
| 00 000 | 00000   | <b>.</b> | 5      |      | monifi - pomanono[+]    | 4-4-   | 0.000  | 5    |
| 36 M   | 36 3037 | <u>^</u> | F      | IN   | Mothyl 2 poptanonal 4 1 | 00     | LIGKO  |      |
| 36-005 | 36-3037 | 0        | 6      | IN   | Methyl-2-pentanone[4-]  | 20     | UG/KG  | U    |

× ×,

| 36-005 | 26 2025 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 22     | UG/KG  | U    |
|--------|---------|--------|--------|---------|------------------------|--------|--------|------|
| 36.005 | 30-3033 | 0      | 6      | IN      | Mothyl-2-pentanone[4-] |        | UG/KG  | Ū    |
| 30-005 | 36-3034 | 0      | 0      | IN      | Methyl 2 pontanone[4]  | 20     |        | U U  |
| 36-005 | 36-3034 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 20     | UG/KG  | 0    |
| 36-005 | 36-3026 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 100    | UG/KG  | U    |
| 36-005 | 36-3025 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 20     | UG/KG  | U    |
| 36-005 | 36-3024 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 24     | UG/KG  | U    |
| 36-005 | 36-3023 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 22     | UG/KG  | υ    |
| 36-005 | 36-3022 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 24     | UG/KG  | U    |
| 36 005 | 26 2021 | õ      | 6      | IN      | Methyl-2-pentanone[4-] | 24     | UG/KG  | u    |
| 30-005 | 30-3021 | 0      | 0      | 111     | Methyl 2 pontonono[4]  | 22     |        | Ŭ    |
| 36-005 | 36-3020 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 22     | UG/KG  | 0    |
| 36-005 | 36-3019 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 22     | UG/KG  | U    |
| 36-005 | 36-3018 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 22     | UG/KG  | U    |
| 36-005 | 36-3018 | 0      | 6      | IN      | Methyl-2-pentanone[4-] | 22     | UG/KG  | U    |
| 36-005 | 36-3051 | 0      | 6      | IN      | Methylene Chloride     | 21     | UG/KG  | U    |
| 26 005 | 26 2050 | õ      | e<br>e | INI     | Methylene Chloride     | 18     | LIG/KG | Ð    |
| 30-005 | 30-3050 | 0      | 0      | IN IN   | Methylene Chloride     | 15     |        | ŭ    |
| 36-005 | 36-3050 | 0      | b      | 1111    | Methylene Official     | 15     |        |      |
| 36-005 | 36-3049 | 0      | 6      | IN      | Methylene Chloride     | 12     | UG/KG  | U    |
| 36-005 | 36-3048 | 0      | 6      | IN      | Methylene Chloride     | 11     | UG/KG  | U    |
| 36-005 | 36-3047 | 0      | 6      | IN      | Methylene Chioride     | 6      | UG/KG  | U    |
| 36-005 | 36-3046 | 0      | 6      | IN      | Methylene Chloride     | 9      | UG/KG  | U    |
| 26.005 | 36-3045 | Ō      | 6      | IN      | Methylene Chloride     | 6      | UG/KG  | U    |
| 30-005 | 36 3044 | õ      | 6      | IN      | Methylene Chloride     | 11     | UG/KG  | 11   |
| 36-005 | 36-3044 | 0      | 0      |         | Methylene Ohloride     | 5      | UG/KG  |      |
| 36-005 | 36-3043 | 0      | 6      | IN      | Methylene Chloride     | 5      | UG/KG  | 0    |
| 36-005 | 36-3042 | 0      | 6      | IN      | Methylene Chloride     | 9      | UG/KG  | U    |
| 36-005 | 36-3042 | 0      | 6      | IN      | Methylene Chloride     | 30     | UG/KG  | U    |
| 36-005 | 36-3041 | 0      | 6      | IN      | Methylene Chloride     | 10     | UG/KG  |      |
| 36-005 | 36-3040 | 0      | â      | IN      | Methylene Chloride     | 10     | UG/KG  |      |
| 30-005 | 36 3090 | 0      | é      | IN      | Mothylone Chloride     | 5      | LIG/KG | 11   |
| 36-005 | 30-3039 | 0      | 0      | HN IN   | Methylene Ohloride     | 10     |        | Ū    |
| 36-005 | 36-3038 | 0      | 6      | IN      | Methylene Chloride     | 16     | UG/KG  |      |
| 36-005 | 36-3037 | 0      | 6      | IN      | Methylene Chloride     | 5      | UG/KG  | U    |
| 36-005 | 36-3036 | 0      | 6      | IN      | Methylene Chloride     | 6      | UG/KG  | U    |
| 36-005 | 36-3035 | 0      | 6      | IN      | Methylene Chloride     | 10     | UG/KG  |      |
| 36-005 | 36-3034 | 0      | 6      | IN      | Methylene Chloride     | 8      | UG/KG  |      |
| 36 005 | 26.2024 | õ      | 6      | IN      | Methylene Chloride     | 5      | LIG/KG | LI I |
| 30-005 | 30-3034 | 0      | 0      | IN IN   | Methylene Chloride     | 120    |        | Ű    |
| 36-005 | 36-3026 | 0      | 0      | 115     | Methylene Chlonde      | 130    |        | J    |
| 36-005 | 36-3025 | 0      | 6      | IN      | Methylene Chloride     | 11     | UG/KG  | U    |
| 36-005 | 36-3024 | 0      | 6      | IN      | Methylene Chloride     | 8      | UG/KG  |      |
| 36-005 | 36-3023 | 0      | 6      | IN      | Methylene Chloride     | 7      | UG/KG  |      |
| 36-005 | 36-3022 | 0      | 6      | IN      | Methylene Chloride     | 12     | UG/KG  |      |
| 36-005 | 36-3021 | 0      | 6      | IN      | Methylene Chloride     | 6      | UG/KG  | U    |
| 26.005 | 36 2020 | õ      | 6      | IN      | Methylene Chloride     | 6      | UG/KG  | ŭ    |
| 30-005 | 30-3020 | 0      | 0      |         | Methylene Chloride     | 6      | UG/KG  | ŭ    |
| 36-005 | 36-3019 | 0      | 6      | lin     | Methylene Chloride     | 6      |        | 0    |
| 36-005 | 36-3018 | 0      | 6      | IN      | Methylene Chloride     | 6      | UG/KG  | U    |
| 36-005 | 36-3018 | 0      | 6      | IN      | Methylene Chloride     | 11     | UG/KG  |      |
| 36-005 | 36-3051 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3050 | 0      | 6      | IN      | Methvinaphthalene[2-]  | 360    | UG/KG  | U    |
| 36-005 | 36-3050 | ñ      | 6      | IN      | Methylnanhthalene[2-]  | 350    | UG/KG  | U    |
| 00-005 | 26 2040 | ő      | é      | INI     | Mothylnaphthalono[2]   | 340    |        |      |
| 30-005 | 30-3049 | 0      | 0      |         | Methylaphinaene(2-)    | 340    |        | ŭ    |
| 36-005 | 36-3048 | 0      | 6      | IN      | Metnyinaphthalene[2-]  | 360    | UG/KG  | U    |
| 36-005 | 36-3047 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 390    | UG/KG  | U    |
| 36-005 | 36-3046 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 360    | UG/KG  | U    |
| 36-005 | 36-3045 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 380    | UG/KG  | U    |
| 36-005 | 36-3044 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 380    | UG/KG  | υ    |
| 36.005 | 36-3043 | ñ      | 6      | IN      | Methylnanhthalene[2-]  | 360    | UG/KG  | ũ    |
| 30-000 | 26 2040 | 0      | 6      | INI     | Mathylaanthalana[2]    | 250    | LIGING |      |
| 36-005 | 30-3042 | 0      | 0      | IIN IIN | Methymapricialene(2-)  | 350    | UG/KG  | 0    |
| 36-005 | 36-3042 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 340    | UG/KG  | U    |
| 36-005 | 36-3041 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3040 | 0      | 6      | IN      | Methyinaphthalene[2-]  | 350    | UG/KG  | υ    |
| 36-005 | 36-3039 | 0      | 6      | IN      | Methvinaphthalene[2-]  | 340    | UG/KG  | U    |
| 36-005 | 36-3038 | n<br>n | 6      | IN      | Methylnanhthalene[2-]  | 360    | UG/KG  | U.   |
| 00-005 | 26 2027 | ő      | č      | IN      | Methylnaphthalono[2]   | 350    |        | ŭ    |
| 36-005 | 30-3037 | 0      | 0      |         |                        | 330    |        |      |
| 36-005 | 30-3036 | U      | b<br>D | IN      | weunymaphunalene[2-]   | 340    |        | U    |
| 36-005 | 36-3035 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3034 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3034 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 350    | UG/KG  | U    |
| 36-005 | 36-3026 | 0      | 6      | IN      | Methvinaphthalenei2-1  | 140000 | UG/KG  | U    |
| 36-00F | 36-3025 | ñ      | Ä      | IN      | Methylnanhthalene(2-)  | 360    | UG/KG  | ü    |
| 00-005 | 00-0020 | ~      | 5      | 11 1    | Mothylapachthalana[0]  | 400    |        |      |
| 30-005 | 30-3024 | U      | 0      | 111     | wenymaphinaleneiz-j    | 400    |        | U    |
| 36-005 | 36-3023 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 370    | UG/KG  | U    |
| 36-005 | 36-3022 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 360    | UG/KG  | υ    |
| 36-005 | 36-3021 | 0      | 6      | IN      | Methylnaphthalene[2-]  | 400    | UG/KG  | U    |
| 36-005 | 36-3020 | 0      | 6      | IN      | Methvinaphthalene[2-]  | 370    | UG/KG  | U    |
| 36-00F | 36-2010 | õ      | e<br>A | IN      | Methylnanhthalenel2-1  | 370    | UG/KG  | ň    |
| 30-000 | 30-3013 | ~      | 6      | 11.4    | Mothylaashthalass(2.)  | 370    | BOKO   |      |
| 30-005 | 30-3010 | v      | 0      | TEN     | weavymaphalene[2•]     | 000    | 00/10  | 0    |

|                  | 36-005 | 36-3018 | 0      | 6   | IN | Methylnaphthalene[2-] | 370    | UG/KG   | U  |
|------------------|--------|---------|--------|-----|----|-----------------------|--------|---------|----|
| 16 <sup>1</sup>  | 36-005 | 36-3051 | 0      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3050 | 0      | 6   | IN | Methylphenol[2-]      | 360    | UG/KG   | υ  |
| 7. a             | 36-005 | 36-3050 | 0      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3049 | 0      | 6   | IN | Methylphenol[2-]      | 340    | UG/KG   | U  |
|                  | 36-005 | 36-3048 | 0      | 6   | IN | Methylphenol[2-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3047 | 0      | 6   | IN | Methylphenol[2-]      | 390    | UG/KG   | U  |
|                  | 36-005 | 36-3046 | Ō      | 6   | IN | Methyiphenol[2-]      | 360    | UG/KG   | υ  |
|                  | 36-005 | 36-3045 | 0      | 6   | IN | Methylphenol[2-]      | 380    | UG/KG   | U  |
|                  | 36-005 | 36-3044 | ō      | 6   | IN | Methylphenol[2-]      | 380    | UG/KG   | U  |
|                  | 36-005 | 36-3043 | õ      | 6   | IN | Methylphenol[2-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3042 | õ      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3042 | õ      | 6   | IN | Methylphenol[2-]      | 340    | UG/KG   | Ū  |
|                  | 36-005 | 36-3041 | Ő      | ő   | IN | Methylphenol(2-)      | 350    | UG/KG   | UR |
|                  | 36-005 | 36-3040 | õ      | 6   | IN | Methylphenoi[2-]      | 350    | UG/KG   | UR |
|                  | 36-005 | 36-3039 | õ      | 6   | IN | Methylphenol[2-]      | 340    | UG/KG   | UR |
|                  | 36-005 | 36-3038 | 0<br>0 | 6   | IN | Methylphenol[2-]      | 360    | UG/KG   | UR |
|                  | 36-005 | 36-3037 | Ő      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | UR |
|                  | 36-005 | 36-3036 | õ      | 6   | IN | Methylphenol[2-]      | 340    | UG/KG   | UR |
|                  | 36-005 | 36-3035 | õ      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | UR |
|                  | 36-005 | 36-3034 | õ      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | UR |
|                  | 36-005 | 36-3034 | õ      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | UR |
|                  | 36-005 | 36-3026 | õ      | 6   | IN | Methylphenol[2-]      | 140000 | UG/KG   | υ  |
|                  | 36-005 | 36-3025 | õ      | 6   | IN | Methylphenol[2-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3024 | õ      | ő   | IN | Methylphenol[2-]      | 400    | UG/KG   | U  |
|                  | 36-005 | 36-3023 | õ      | 6   | IN | Methylphenol[2-]      | 370    | UG/KG   | U  |
|                  | 36-005 | 36-3022 | õ      | 6   | IN | Methylphenol[2-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3021 | õ      | 6   | iN | Methylphenol[2-]      | 400    | UG/KG   | υ  |
|                  | 36-005 | 36-3020 | ō      | 6   | IN | Methylphenol[2-]      | 370    | UG/KG   | U  |
|                  | 36-005 | 36-3019 | ō      | 6   | IN | Methylphenol[2-]      | 370    | UG/KG   | U  |
|                  | 36-005 | 36-3018 | 0      | 6   | IN | Methylphenol[2-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3018 | õ      | 6   | IN | Methylphenol[2-]      | 370    | UG/KG   | U  |
|                  | 36-005 | 36-3051 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3050 | Ō      | 6   | IN | Methylphenol[4-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3050 | Ō      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3049 | Ō      | 6   | IN | Methylphenol[4-]      | 340    | UG/KG   | U  |
| y the            | 36-005 | 36-3048 | Ō      | 6   | IN | Methylphenol[4-]      | 360    | UG/KG   | υ  |
|                  | 36-005 | 36-3047 | 0      | 6   | IN | Methylphenol[4-]      | 390    | UG/KG   | υ  |
| <sup>5</sup> 695 | 36-005 | 36-3046 | ō      | 6   | IN | Methylphenol[4-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3045 | Ō      | 6   | IN | Methylphenol[4-]      | 380    | UG/KG   | U  |
|                  | 36-005 | 36-3044 | 0      | 6   | IN | Methylphenol[4-]      | 380    | UG/KG   | U  |
|                  | 36-005 | 36-3043 | 0      | 6   | IN | Methylphenol[4-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3042 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3042 | 0      | 6   | IN | Methylphenol[4-]      | 340    | UG/KG   | U  |
|                  | 36-005 | 36-3041 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3040 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3039 | 0      | 6   | IN | Methylphenol[4-]      | 340    | UG/KG   | U  |
|                  | 36-005 | 36-3038 | 0      | · 6 | IN | Methylphenol[4-]      | 360    | UG/KG   | υ  |
|                  | 36-005 | 36-3037 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | υ  |
|                  | 36-005 | 36-3036 | 0      | 6   | 1N | Methylphenol[4-]      | 340    | UG/KG   | U  |
|                  | 36-005 | 36-3035 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3034 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | υ  |
|                  | 36-005 | 36-3034 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3026 | 0      | 6   | IN | Methylphenol[4-]      | 140000 | UG/KG   | U  |
|                  | 36-005 | 36-3025 | 0      | 6   | IN | Methylphenol[4-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3024 | 0      | 6   | IN | Methylphenol[4-]      | 400    | UG/KG   | U  |
|                  | 36-005 | 36-3023 | 0      | 6   | IN | Methylphenol[4-]      | 370    | UG/KG   | U  |
|                  | 36-005 | 36-3022 | 0      | 6   | IN | Methylphenol[4-]      | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3021 | 0      | 6   | IN | Methylphenol[4-]      | 400    | UG/KG   | U  |
|                  | 36-005 | 36-3020 | 0      | 6   | IN | Methylphenol[4-]      | 370    | UG/KG   | U  |
|                  | 36-005 | 36-3019 | 0      | 6   | IN | Methylphenol[4-]      | 370    | UG/KG   | υ  |
|                  | 36-005 | 36-3018 | 0      | 6   | IN | Methylphenol[4-]      | 350    | UG/KG   | υ  |
|                  | 36-005 | 36-3018 | 0      | 6   | IN | Methylphenol[4-]      | 370    | UG/KG   | υ  |
|                  | 36-005 | 36-3051 | 0      | 6   | IN | Naphthalene           | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3050 | 0      | 6   | IN | Naphthalene           | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3050 | 0      | 6   | IN | Naphthalene           | 350    | UG/KG   | U  |
|                  | 36-005 | 36-3049 | 0      | 6   | IN | Naphthalene           | 340    | UG/KG   | U  |
|                  | 36-005 | 36-3048 | 0      | 6   | IN | Naphthalene           | 360    | UG/KG   | U  |
|                  | 36-005 | 36-3047 | 0      | 6   | IN | Naphthalene           | 390    | UG/KG   | U  |
|                  | 36-005 | 36-3046 | 0      | 6   | IN | Naphthalene           | 360    | UG/KG   | υ  |
|                  | 36-005 | 36-3045 | 0      | 6   | IN | Naphthalene           | 380    | UG/KG   | U  |
|                  | 36-005 | 36-3044 | 0      | 6   | IN | Naphthalene           | 380    | UG/KG   | U  |
|                  | 36-005 | 36-3043 | 0      | 6   | IN | Naphthalene           | 360    | UG/KG   | U  |
| 146 L 1          | 36-005 | 36-3042 | 0      | 6   | IN | Naphthalene           | 350    | _ UG/KG | U  |

|        | 00.00.00 |        | ~      |      | Alam Late - 1         | 0.00   | LICIKO |         |
|--------|----------|--------|--------|------|-----------------------|--------|--------|---------|
| 36-005 | 36-3042  | 0      | ь      | IN   | Naphthalene           | 340    | UG/KG  | U       |
| 36-005 | 36-3041  | 0      | 6      | IN   | Naphthalene           | 350    | UG/KG  | UJ      |
| 36-005 | 36-3040  | Ō      | 6      | IN   | Nanhthalene           | 350    | UG/KG  | U.I     |
| 00-005 | 00 0040  | 0      | č      | 11.1 | Naphthaisrie          | 040    |        |         |
| 36-005 | 36-3039  | 0      | ю      | IN   | Naphthalene           | 340    | UG/KG  | 05      |
| 36-005 | 36-3038  | 0      | 6      | IN   | Naphthalene           | 360    | UG/KG  | UJ      |
| 36-005 | 36-3037  | 0      | 6      | IN   | Naphthalene           | 350    | UG/KG  | UJ      |
| 26 005 | 26 2026  | Å      | 6      | INI  | Nonhthalana           | 240    | HGIKG  |         |
| 30-005 | 30-3036  | 0      | 0      | IN   | Naprillalene          | 340    | UG/KG  | 05      |
| 36-005 | 36-3035  | 0      | 6      | IN   | Naphthalene           | 350    | UG/KG  | UJ      |
| 36-005 | 36-3034  | 0      | 6      | IN   | Naphthalene           | 350    | UG/KG  | UJ      |
| 26 005 | 26 2024  | Ō      | Ē      | INT  | Naphthaiana           | 350    | HGKG   | 111     |
| 30-005 | 30-3034  | U      | 0      | IIN  | Mapriliaierie         | 550    | 00/RG  | 00      |
| 36-005 | 36-3026  | 0      | 6      | IN   | Naphthalene           | 140000 | UG/KG  | U       |
| 36-005 | 36-3025  | 0      | 6      | IN   | Naphthalene           | 360    | UG/KG  | U       |
| 26-005 | 36-3024  | 0      | 6      | IN   | Nanhthalene           | 400    | UG/KG  | 11      |
| 30-003 | 30-3024  | 0      | 0      |      | Naphiliaiche          | 400    | UQ/KQ  |         |
| 36-005 | 36-3023  | 0      | 6      | IN   | Naphthalene           | 370    | UG/KG  | U       |
| 36-005 | 36-3022  | 0      | 6      | IN   | Naphthaiene           | 360    | UG/KG  | U       |
| 36-005 | 36-3021  | 0      | 6      | IN   | Nanhthalene           | 400    | UG/KG  | LI      |
| 00 000 | 00 0021  | ő      | 0      | 1.1  | Nanhihaiana           | 270    |        | ŭ       |
| 36-005 | 36-3020  | 0      | ь      | IN   | Naphthalene           | 370    | UG/KG  | 0       |
| 36-005 | 36-3019  | 0      | 6      | IN   | Naphthalene           | 370    | UG/KG  | U       |
| 36-005 | 36-3018  | 0      | 6      | IN   | Naphthaiene           | 350    | UG/KG  | U       |
| 20 000 | 26 2010  | õ      | č      | INI  | Naphthalana           | 270    |        | , i     |
| 30-005 | 30-3018  | 0      | ъ      | IN   | Naprillalerie         | 370    | UG/KG  | 0       |
| 36-005 | NA       |        |        |      | Nickel                | 13.2   | MG/KG  |         |
| 36-005 | 36-3051  | 0      | 6      | IN   | Nickel                | 4.8    | MG/KG  | U       |
| 26-005 | 26-2050  | n n    | Ē      | INI  | Nickel                | 5.6    | MG/KG  |         |
| 30-005 | 30-3050  | 0      | 0      | IN   | NICKEI                | 5.0    | Marka  |         |
| 36-005 | 36-3050  | 0      | 6      | IN   | Nickel                | 7.9    | MG/KG  | U       |
| 36-005 | 36-3049  | 0      | 6      | IN   | Nickel                | 2      | MG/KG  | U       |
| 26-005 | 26-2049  | Ō      | e      | IN   | Nickel                | 87     | MG/KG  |         |
| 30-005 | 30-3040  | 0      | 0      | H N  | NICKEI                | 0.7    | Marka  |         |
| 36-005 | 36-3047  | 0      | 6      | IN   | Nickel                | 4.2    | MG/KG  | U       |
| 36-005 | 36-3046  | 0      | 6      | IN   | Nickel                | 3.7    | MG/KG  | U       |
| 36-005 | 36-3045  | 0      | 6      | IN   | Nickel                | 97     | MG/KG  |         |
| 00-000 | 00-0040  | 0      | 0      |      | Nist                  | 0.7    | Marka  |         |
| 36-005 | 36-3044  | 0      | 6      | IN   | NICKEI                | 6.2    | MG/KG  | U       |
| 36-005 | 36-3043  | 0      | 6      | IN   | Nickel                | 3.4    | MG/KG  | U       |
| 36-005 | 36-3042  | ٥      | 6      | IN   | Nickel                | 5      | MG/KG  | 11      |
| 00-005 | 00-0042  | ő      | ő      | 11.1 | Niekel                | 50     | Marka  | ŭ       |
| 36-005 | 36-3042  | 0      | ь      | IN   | NICKEI                | 5.2    | MG/KG  | U       |
| 36-005 | 36-3041  | 0      | 6      | IN   | Nickel                | 5.9    | MG/KG  |         |
| 36-005 | 36-3040  | 0      | 6      | IN   | Nickel                | 4.2    | MG/KG  |         |
| 26 005 | 26 2020  | õ      | č      | IN   | Niekol                |        | MG/KG  | .,      |
| 30-005 | 30-3039  | 0      | 0      | IN   | INICKEI               | 3.7    | MG/NG  | 0       |
| 36-005 | 36-3038  | 0      | 6      | IN   | Nickel                | 6.1    | MG/KG  |         |
| 36-005 | 36-3037  | 0      | 6      | IN   | Nickel                | 6.6    | MG/KG  |         |
| 26.005 | 26-2026  | 0      | Ē      | IN   | Nickel                | 6      | MG/KG  |         |
| 30-005 | 30-3030  | 0      | 0      | 114  | NICKEI                | 0      | wanta  |         |
| 36-005 | 36-3035  | 0      | 6      | IN   | Nickel                | 9.5    | MG/KG  |         |
| 36-005 | 36-3034  | 0      | 6      | IN   | Nickel                | 5.1    | MG/KG  |         |
| 26.005 | 26-2024  | Ň      | ĥ      | IN   | Nickel                | 57     | MG/KG  |         |
| 30-005 | 30-3034  | 0      | 0      | 114  | NICKEI                | 5.7    |        |         |
| 36-005 | 36-3026  | 0      | 6      | IN   | Nickel                | 6.5    | MG/KG  | U       |
| 36-005 | 36-3025  | 0      | 6      | IN   | Nickel                | 2.5    | MG/KG  | UJ      |
| 36-005 | 36-3024  | 0      | 6      | IN   | Nickel                | 4.1    | MG/KG  |         |
| 30-003 | 30-3024  | 0      | 0      |      | Nickel                | 4.1    |        | 05      |
| 36-005 | 36-3023  | 0      | 6      | IN   | NICKEI                | 4.9    | MG/KG  | UJ      |
| 36-005 | 36-3022  | 0      | 6      | IN   | Nickel                | 5.5    | MG/KG  | UJ      |
| 36-005 | 36-3021  | 0      | 6      | IN   | Nickel                | 44     | MG/KG  | 0.1     |
| 00 000 | 00 0021  | õ      | č      | 161  | Niekst                | 1.0    | Morrid |         |
| 36-005 | 36-3020  | U      | ь      | IN   | NICKEI                | 4.0    | MG/KG  | 01      |
| 36-005 | 36-3019  | 0      | 6      | IN   | Nickel                | 3.2    | MG/KG  | UJ      |
| 36-005 | 36-3018  | 0      | 6      | IN   | Nickel                | 5.8    | MG/KG  | UJ      |
| 26 005 | 26 2019  | 0      | ē      | INI  | Niekol                | 2.2    | MONO   |         |
| 30-005 | 30-3010  | 0      | 0      | 111  | NICKEI                | 3.3    | WG/KG  | 03      |
| 36-005 | 36-3051  | 0      | 6      | IN   | Nitroaniline[2-]      | 1800   | UG/KG  | U       |
| 36-005 | 36-3050  | 0      | 6      | IN   | Nitroaniline[2-]      | 1800   | UG/KG  | U       |
| 36-005 | 36-3050  | 0      | 6      | IN   | Nitroaniline[2.]      | 1700   | LIG/KG |         |
| 00-005 | 00-0000  | 0      | 0      |      |                       | 1700   | UG/KG  |         |
| 36-005 | 36-3049  | 0      | 6      | IN   | Nitroaniline[2-]      | 1700   | UG/KG  | U       |
| 36-005 | 36-3048  | 0      | 6      | IN   | Nitroaniline[2-]      | 1800   | UG/KG  | υ       |
| 36-005 | 36-3047  | 0      | 6      | IN   | Nitroaniline[2-]      | 2000   | LIG/KG | 11      |
| 00 000 | 00 00 40 | õ      | ĉ      | 151  |                       | 1000   | UC/KO  | ŭ       |
| 30-005 | 30-3040  | 0      | D      | IIN  | Nitroaniline[2-]      | 1800   | UG/KG  | U       |
| 36-005 | 36-3045  | 0      | 6      | IN   | Nitroaniline[2-]      | 1900   | UG/KG  | U       |
| 36-005 | 36-3044  | 0      | 6      | IN   | Nitroaniline[2-]      | 1900   | UG/KG  | 11      |
| 20 005 | 00 0040  | 0      | ē      | 151  | Nitroonilino[0]       | 1900   | UCIKO  | ŭ       |
| 30-005 | 30-3043  | U      | U<br>- | 11 N | Nicoanini e[2-]       | 1800   | UG/KG  | U       |
| 36-005 | 36-3042  | 0      | 6      | IN   | Nitroaniline[2-]      | 1700   | UG/KG  | U       |
| 36-005 | 36-3042  | 0      | 6      | IN   | Nitroaniline[2-]      | 1700   | UG/KG  | U       |
| 36-005 | 36-2041  | Ň      | e      | IN   | Nitroaniline[2-]      | 1700   |        |         |
| 00-005 | 00-0041  | ů<br>č | 0      | 11 N |                       | 1700   |        |         |
| 36-005 | 36-3040  | 0      | 6      | IN   | Nitroaniline[2-]      | 1700   | UG/KG  | U       |
| 36-005 | 36-3039  | 0      | 6      | IN   | Nitroaniline[2-]      | 1700   | UG/KG  | U       |
| 36-005 | 36-2029  | n      | 6      | INI  | Nitroaniline(2-1      | 1000   |        |         |
| 00 000 | 00-0007  |        | č      | 11 M |                       | 1000   |        |         |
| 36-005 | 36-3037  | U      | 6      | iN   | Nitroaniline[2-]      | 1700   | UG/KG  | Ų       |
| 36-005 | 36-3036  | 0      | 6      | IN   | Nitroaniline[2-]      | 1700   | UG/KG  | U       |
| 36-005 | 36-3035  | 0      | 6      | IN   | Nitroaniline[2-1      | 1800   |        | -<br>11 |
| 00.000 | 00 0000  |        | ~      |      |                       | 1000   |        |         |
| 36-005 | 36-3034  | 0      | 6      | IN   | Nitroaniline[2-]      | 1700   | UG/KG  | U       |
| 36-005 | 36-3034  | 0      | 6      | IN   | Nitroaniline[2-]      | 1800   | UG/KG  | U       |
| 36-005 | 36-3026  | 0      | 6      | IN   | Nitroaniline[2-]      | 680000 | UG/KG  |         |
|        | 22 0020  | -      | -      | ** * | i sus son ministre l' | 000000 |        | 0       |

|                                           | 36-005 | 36-3025 | 0 | 6        | IN         | Nitroaniline[2-] | 1800   | UG/KG | U      |
|-------------------------------------------|--------|---------|---|----------|------------|------------------|--------|-------|--------|
| 20                                        | 36-005 | 36-3024 | 0 | 6        | IN         | Nitroaniline[2-] | 2000   | UG/KG | U      |
|                                           | 36-005 | 36-3023 | 0 | 6        | IN         | Nitroaniline[2-] | 1900   | UG/KG | U      |
| 14 .                                      | 36-005 | 36-3022 | 0 | 6        | IN         | Nitroaniline[2-] | 1800   | UG/KG | U      |
|                                           | 36-005 | 36-3021 | 0 | 6        | IN         | Nitroaniline[2-] | 2000   | UG/KG | U      |
|                                           | 36-005 | 36-3020 | 0 | 6        | IN         | Nitroaniline[2-] | 1900   | UG/KG | 0      |
|                                           | 36-005 | 36-3019 | 0 | 6        | IN         | Nitroaniline[2-] | 1900   | UG/KG | U      |
|                                           | 36-005 | 36-3018 | 0 | 6        | IN         | Nitroaniline[2-] | 1700   | UG/KG | U      |
|                                           | 36-005 | 36-3018 | 0 | 6        | IN         | Nitroaniline[2-] | 1800   | UG/KG | U      |
|                                           | 36-005 | 36-3051 | 0 | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | U      |
|                                           | 36-005 | 36-3050 | 0 | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | U      |
|                                           | 36-005 | 36-3050 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | 0      |
|                                           | 36-005 | 36-3049 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | U      |
|                                           | 36-005 | 36-3048 | 0 | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | 0      |
|                                           | 36-005 | 36-3047 | 0 | 6        | IN         | Nitroaniline[3-] | 2000   | UG/KG | 0      |
|                                           | 36-005 | 36-3046 | 0 | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG |        |
|                                           | 36-005 | 36-3045 | 0 | 6        | IN         | Nitroaniine[3-]  | 1900   |       |        |
|                                           | 36-005 | 36-3044 | 0 | 6        | IN         | Nitroaniline[3-] | 1900   |       |        |
|                                           | 36-005 | 36-3043 | 0 | 6        | IN         | Nitroaniline[3-] | 1300   | UG/KG | 1      |
|                                           | 36-005 | 36-3042 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | 1      |
|                                           | 36-005 | 36-3042 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | ŭ      |
|                                           | 36-005 | 36-3041 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | ŭ      |
|                                           | 36-005 | 36-3040 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | ŭ      |
|                                           | 36-005 | 30-3039 | 0 | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | Ŭ      |
|                                           | 36-005 | 30-3030 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | ũ      |
|                                           | 36-005 | 30-3037 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | Ū      |
|                                           | 36-005 | 36-3035 | Ő | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | Ū      |
|                                           | 36-005 | 36-3034 | Ő | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | Ū      |
|                                           | 36-005 | 36-3034 | õ | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | υ      |
|                                           | 36-005 | 36-3026 | Ő | 6        | IN         | Nitroaniline[3-] | 680000 | UG/KG | U      |
|                                           | 36-005 | 36-3025 | õ | ő        | IN         | Nitroaniline[3-] | 1800   | UG/KG | U      |
|                                           | 36-005 | 36-3024 | ō | 6        | IN         | Nitroaniline[3-] | 2000   | UG/KG | U      |
|                                           | 36-005 | 36-3023 | 0 | 6        | IN         | Nitroaniline[3-] | 1900   | UG/KG | U      |
|                                           | 36-005 | 36-3022 | 0 | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | U      |
|                                           | 36-005 | 36-3021 | 0 | 6        | IN         | Nitroaniline[3-] | 2000   | UG/KG | U      |
| 1. C. | 36-005 | 36-3020 | 0 | 6        | 1N         | Nitroaniline[3-] | 1900   | UG/KG | U      |
|                                           | 36-005 | 36-3019 | 0 | 6        | IN         | Nitroaniline[3-] | 1900   | UG/KG | U      |
| Non-                                      | 36-005 | 36-3018 | 0 | 6        | IN         | Nitroaniline[3-] | 1700   | UG/KG | U      |
|                                           | 36-005 | 36-3018 | 0 | 6        | IN         | Nitroaniline[3-] | 1800   | UG/KG | υ      |
|                                           | 36-005 | 36-3051 | 0 | 6        | IN         | Nitroaniline[4-] | 710    | UG/KG | U      |
|                                           | 36-005 | 36-3050 | 0 | 6        | IN         | Nitroaniline[4-] | 710    | UG/KG | U      |
|                                           | 36-005 | 36-3050 | 0 | 6        | IN         | Nitroaniline[4-] | 700    | UG/KG | U      |
|                                           | 36-005 | 36-3049 | 0 | 6        | IN         | Nitroaniline[4-] | 680    | UG/KG | U      |
|                                           | 36-005 | 36-3048 | 0 | 6        | IN         | Nitroaniline[4-] | 730    | UG/KG | U      |
|                                           | 36-005 | 36-3047 | 0 | 6        | IN         | Nitroaniline[4-] | 780    | UG/KG | U      |
|                                           | 36-005 | 36-3046 | 0 | 6        | IN         | Nitroaniline[4-] | 720    | UG/KG | U      |
|                                           | 36-005 | 36-3045 | 0 | 6        | IN         | Nitroaniline[4-] | 760    | UG/KG |        |
|                                           | 36-005 | 36-3044 | 0 | 6        | IN         | Nitroaniline[4-] | 760    | UG/KG | 0      |
|                                           | 36-005 | 36-3043 | 0 | 6        | IN         | Nitroaniline[4-] | 730    |       | 0      |
|                                           | 36-005 | 36-3042 | 0 | 6        | IN         | Nitroaniline[4-] | 700    |       | 0      |
|                                           | 36-005 | 36-3042 | 0 | 6        | 1N         | Nitroaniline[4-] | 690    |       |        |
|                                           | 36-005 | 36-3041 | 0 | 6        | IN         | Nitroaniine(4-)  | 600    |       |        |
|                                           | 36-005 | 36-3040 | 0 | 6        | IN         | Nitroaniline[4-] | 670    | UG/KG |        |
|                                           | 36-005 | 36-3039 | 0 | 6        | IN         | Nitroaniine[4-]  | 710    | UG/KG |        |
|                                           | 36-005 | 36-3038 | 0 | 6        | IN         | Nitroaniine[4-]  | 690    | UG/KG |        |
|                                           | 36-005 | 36-3037 | 0 | D<br>C   | IIN<br>INI | Nitroaniine[4-]  | 680    | UG/KG |        |
|                                           | 36-005 | 36-3036 | 0 | 0        | IN         | Nitroaniine[4-]  | 710    |       | - U    |
|                                           | 36-005 | 36-3035 | 0 | 0        | HN INI     | Nitrophilipo[4]  | 710    | UG/KG |        |
|                                           | 36-005 | 36-3034 | 0 | 0        | IN         | Nitroaniine[4-]  | 700    | UG/KG |        |
|                                           | 36-005 | 36-3034 | 0 | 0        | 41N<br>INI | Nitroaniline[4-] | 270000 | UG/KG | ŭ      |
|                                           | 36-005 | 30-3020 | U | D<br>C   | IN         | Nitroaniline[4-] | 730    | UG/KG | - U    |
|                                           | 30-005 | 30-3025 | 0 | 6        | IN         | Nitroaniline[4-] | 800    | UG/KG | U U    |
|                                           | 30-005 | 30-3024 | 0 | 0        | IIN<br>INI | Nitroaniine[4-]  | 740    | UG/KG |        |
|                                           | 36-005 | 30-3023 | 0 | 0        | jin<br>jki | Nitroaniline[4-] | 740    | UG/KG |        |
|                                           | 36-005 | 36-3022 | 0 | 6        |            | Nitroppilipe[4-] | 810    | UG/KG |        |
|                                           | 36-005 | 30-3021 | 0 | 0        | HN<br>JNI  |                  | 740    | UG/KG | 11     |
|                                           | 30-005 | 30-3020 | 0 | 6        | IIN<br>INI | Nitroaniline[4-] | 740    | UG/KG | П      |
|                                           | 36-005 | 36-3019 | 0 | 0        |            | Nitroapilico[4-] | 600    | UG/KG |        |
|                                           | 36-005 | 36-3018 | 0 | D<br>C   | IN<br>IN   | Nitroaniin@[4-]  | 730    | UG/KG |        |
|                                           | 30-005 | 30-3018 | 0 | <u>د</u> | IN<br>JNI  | Nitrobenzene     | 350    | UG/KG |        |
| d.                                        | 30-005 | 30-3051 | 0 | 6        | in<br>IN   | Nitrobenzene     | 0.074  | UG/G  | 1      |
|                                           | 30-005 | 30-3051 | 0 | 6        | IN IN      | Nitrobenzene     | 360    | UG/KG | ц<br>Ц |
|                                           | 30-005 | 30-3050 | U | o        | UN I       | NUCOUCIZENE      | 000    |       | 5      |

| · (h) - ( ii ) - 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 30-003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 26 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 00-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 26 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 26 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                     | 1900<br>1800<br>2000<br>1900<br>1900<br>1700<br>1800<br>350<br>360<br>360<br>360<br>380<br>360<br>360<br>360<br>350<br>340<br>360<br>350<br>340<br>350<br>340<br>350<br>340<br>350<br>340<br>350<br>350<br>340<br>350<br>340<br>350<br>340<br>350<br>340<br>360<br>350<br>340<br>350<br>360<br>350<br>360<br>360<br>350<br>360<br>360<br>360<br>360<br>360<br>360<br>350<br>360<br>360<br>360<br>360<br>360<br>350<br>360<br>360<br>350<br>360<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>350<br>360<br>350<br>350<br>360<br>350<br>350<br>350<br>360<br>350<br>350<br>360<br>350<br>350<br>350<br>350<br>350<br>360<br>350<br>350<br>350<br>350<br>360<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>35                             | 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                                     | 1900<br>1800<br>2000<br>1900<br>1900<br>1700<br>1800<br>350<br>360<br>360<br>380<br>380<br>360<br>380<br>360<br>350<br>340<br>360<br>350<br>340<br>360<br>350<br>340<br>350<br>350<br>340<br>360<br>350<br>350<br>340<br>360<br>350<br>350<br>360<br>350<br>380<br>360<br>350<br>380<br>360<br>380<br>360<br>350<br>380<br>360<br>380<br>360<br>350<br>380<br>360<br>350<br>380<br>360<br>350<br>360<br>380<br>360<br>350<br>360<br>380<br>360<br>350<br>360<br>350<br>360<br>380<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>360<br>350<br>350<br>360<br>350<br>350<br>350<br>350<br>350<br>350<br>350<br>35 | 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21<sup>00</sup> 4......

| 36-005 | 36-3020  | 0      | 6 | IN      | Nitrosodimethylamine[N-]         | 370     | UG/KG  | U     |
|--------|----------|--------|---|---------|----------------------------------|---------|--------|-------|
| 36-005 | 36-3019  | 0      | 6 | IN      | Nitrosodimethylamine[N-1         | 370     | UG/KG  | 11    |
| 00 000 | 00 0010  |        |   |         |                                  | 070     |        |       |
| 36-005 | 36-3018  | 0      | ь | IN      | Nitrosodimetnyiamine[N-]         | 350     | UG/KG  | U     |
| 36-005 | 36-3018  | 0      | 6 | IN      | Nitrosodimethylamine[N-]         | 370     | UG/KG  | U     |
| 36-005 | 36-3051  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 350     | UG/KG  | 11    |
| 20 005 | 00 0050  | ő      | č |         | Nilius - di e propulamine[N] )   | 000     |        |       |
| 30-005 | 30-3050  | 0      | D | IN      | Nitroso-di-n-propylamine[N-j     | 360     | UG/KG  | U     |
| 36-005 | 36-3050  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 350     | UG/KG  | U     |
| 36-005 | 36-3049  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 340     | UG/KG  | 11    |
| 00 000 | 00 00 10 | ő      | č | 1       | Nikosa di n propyranino[N]       | 860     | UCIKO  |       |
| 30-005 | 30-3048  | 0      | D | IIN     | Nitroso-di-n-propylamine[N-j     | 360     | UG/KG  | 0     |
| 36-005 | 36-3047  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 390     | UG/KG  | U     |
| 36-005 | 36.2046  | 0      | 6 | IN      | Nitroso di-n-propulamine[N_]     | 360     | LIG/KG | Ú.    |
| 00-005 | 00-00-40 | 0      | 0 |         | Mitroso-di-n-propylamine[14-]    | 300     | 00/100 | 0     |
| 36-005 | 36-3045  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 380     | UG/KG  | U     |
| 36-005 | 36-3044  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 380     | UG/KG  | U     |
| 36-005 | 36-3043  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-1     | 360     | LIG/KG | 11    |
| 30-003 | 00-00-0  | 0      | 0 |         | Milloso-di-H-propylamine[M-]     | 500     | 00/KG  | 0     |
| 36-005 | 36-3042  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 350     | UG/KG  | U     |
| 36-005 | 36-3042  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 340     | UG/KG  | U     |
| 36-005 | 36-3041  | Δ      | 6 | INI     | Nitroso-di-n-propylamine[NI-]    | 350     |        | , iii |
| 00 005 | 00 0041  | ő      | ě |         |                                  | 550     | UQ/ICG | 0     |
| 36-005 | 36-3040  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-j     | 350     | UG/KG  | U     |
| 36-005 | 36-3039  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 340     | UG/KG  | υ     |
| 36-005 | 36-3038  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N]-1    | 360     |        | . ii  |
| 30-003 | 00-0000  | 0      | 0 |         | Nili Oso-di-II-propylatinite[N-] | 500     | UG/KG  | U     |
| 36-005 | 36-3037  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 350     | UG/KG  | U     |
| 36-005 | 36-3036  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 340     | UG/KG  | υ     |
| 36-005 | 36-3035  | ٥      | 6 | INF     | Nitroso-di-n-propylamine[NI-1    | 350     | UC/KG  | 1.1   |
| 30-005 | 30-3035  | 0      | 0 |         | Nitroso-or-n-propylamine[14-]    | 350     | Jaka   | U     |
| 36-005 | 36-3034  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 350     | UG/KG  | U     |
| 36-005 | 36-3034  | 0      | 6 | IN      | Nitroso-di-n-propylamine/N-1     | 350     | UG/KG  | U     |
| 26 005 | 26 2026  | ,<br>, | Ē | IN I    | Nitroos di a propulamina[N] )    | 1 40000 |        | ŭ     |
| 36-005 | 30-3020  | U      | ю | IN      | Nitroso-di-n-propylamine[N-]     | 140000  | UG/KG  | U     |
| 36-005 | 36-3025  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 360     | UG/KG  | υ     |
| 36-005 | 36-3024  | ٥      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 400     | LIG/KG |       |
| 00 000 | 00 0024  | 0      | č | 1.4     | Nitroso di la propytamine(14 )   | 400     | Uanca  |       |
| 36-005 | 36-3023  | 0      | ъ | IN      | Nitroso-di-n-propylamine[N-]     | 370     | UG/KG  | U     |
| 36-005 | 36-3022  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 360     | UG/KG  | U     |
| 36-005 | 36-3021  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 400     | LIG/KG | . ii  |
| 00 000 | 00 0021  | °,     | ő |         |                                  | 400     | UQ/RG  | 0     |
| 36-005 | 36-3020  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-j     | 370     | UG/KG  | U     |
| 36-005 | 36-3019  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 370     | UG/KG  | U     |
| 36-005 | 36-3018  | 0      | 6 | IN      | Nitroso-di-n-propylamine[N-]     | 350     | UG/KG  | 11    |
| 00 000 | 00 0010  | ő      | ő |         |                                  | 330     | UG/KG  |       |
| 36-005 | 36-3018  | 0      | ю | IN      | Nitroso-di-n-propylamine[N-]     | 370     | UG/KG  | U     |
| 36-005 | 36-3051  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 350     | UG/KG  | U     |
| 36-005 | 36-3050  | ٥      | 6 | IN      | Nitrosodiobenylamine[N-]         | 360     | LIG/KG |       |
| 00-000 | 00-0000  | 0      |   |         | Nitrosociprienylamine[14-]       | 300     | UG/KG  | U     |
| 36-005 | 36-3050  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 350     | UG/KG  | U     |
| 36-005 | 36-3049  | 0      | 6 | IN      | Nitrosodiphenvlamine[N-]         | 340     | UG/KG  | u     |
| 36-005 | 36-3048  | n      | 6 | IN      | Nitrosodiphenylamine[N_]         | 260     |        | ŭ     |
| 30-005 | 30-3040  | 0      | 0 | IN      | Nitrosodiphenylamine(N-j         | 360     | UG/KG  | U     |
| 36-005 | 36-3047  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 390     | UG/KG  | U     |
| 36-005 | 36-3046  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 360     | UG/KG  | 11    |
| 26 005 | 26 2045  | 0      | 6 | 15.1    | Nitropodiphonylamino[N]          | 000     | UQ/KQ  |       |
| 30-005 | 30-3045  | 0      | 0 | 111     | Nitrosociprienyianinie[N-j       | 380     | UG/KG  | 0     |
| 36-005 | 36-3044  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 380     | UG/KG  | U     |
| 36-005 | 36-3043  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 360     | UG/KG  | 11    |
| 20 005 | 26 2042  | ò      | č | 151     | Nitropodiphonylamino[ht]         | 000     | UQ//(Q | ŭ     |
| 30-005 | 30-3042  | U      | D | IIN     | Nitrosodiprienylamine[N-]        | 350     | UG/KG  | U     |
| 36-005 | 36-3042  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 340     | UG/KG  | U     |
| 36-005 | 36-3041  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 350     | LIG/KG |       |
| 26 005 | 26 2040  | 0      | ē | INC     | Nitropodiphonylamino[N]          | 050     | UQ/KQ  | ŭ     |
| 30-005 | 36-3040  | U      | o | IN      | Nitrosodipnenylamine[N-j         | 350     | UG/KG  | U     |
| 36-005 | 36-3039  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 340     | UG/KG  | U     |
| 36-005 | 36-3038  | 0      | 6 | IN      | Nitrosodinhenvlamine[N-1         | 360     |        |       |
| 00 005 | 00 0007  | ő      | õ | 141     | Ninesediphenylanine[14]          | 500     | Udina  | 0     |
| 30-005 | 30-3037  | U      | ю | IN      | Nitrosodipnenylamine[N-j         | 350     | UG/KG  | 0     |
| 36-005 | 36-3036  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 340     | UG/KG  | U     |
| 36-005 | 36-3035  | 0      | 6 | IN      | Nitrosodinhenvlamine[N+]         | 350     | HG/KG  |       |
| 20 005 | 00 0004  | 0      | č |         | Nites a dia based and a fit 3    | 000     | UQ/ICG |       |
| 30-005 | 30-3034  | U      | b | liN     | Nitrosodipnenylamine[N-j         | 350     | UG/KG  | U     |
| 36-005 | 36-3034  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 350     | UG/KG  | U     |
| 36-005 | 36-3026  | 0      | 6 | IN      | Nitrosodinheovlamine[N-]         | 140000  | UG/KG  | 11    |
| 00 000 | 00 0020  | ő      | ő |         |                                  | 140000  | Udind  |       |
| 36-005 | 36-3025  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 360     | UG/KG  | U     |
| 36-005 | 36-3024  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 400     | UG/KG  | U     |
| 36-005 | 36-3023  | 0      | 6 | IN      | Nitrosodinbenylamine[N_]         | 370     | LIG/KG | ŭ     |
| 00 000 | 00 0020  | ,<br>, | ě |         |                                  | 3/0     | Ud/Kd  | 0     |
| 36-005 | 36-3022  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 360     | UG/KG  | U     |
| 36-005 | 36-3021  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 400     | UG/KG  | U     |
| 36-005 | 36-3000  | 0      | A | IN      | Nitrosodinhenvlamino[N]          | 070     |        | ň     |
| 00-000 | 00-0020  | 5      | 5 | 11 N    | radosouprienyiannine[in-]        | 370     | UG/KG  | U     |
| 36-005 | 36-3019  | 0      | 6 | IN      | Nitrosodiphenylamine[N-]         | 370     | UG/KG  | U     |
| 36-005 | 36-3018  | 0      | 6 | IN      | Nitrosodiphenvlamine[N-1         | 350     | UG/KG  | U     |
| 36-005 | 36-3019  | n n    | e | IN      | Nitrosodinbenylamino[N1]         | 270     | LIGKO  |       |
| 00-000 | 30-3016  | 0      | 0 | IIN III | ran usoupnenylamine[IN-]         | 370     | UG/KG  | U     |
| 36-005 | 36-3051  | 0      | 6 | IN      | Nitrotoluene[2-]                 | 0.138   | UG/G   | U     |
| 36-005 | 36-3050  | 0      | 6 | IN      | Nitrotoluene[2-1                 | 0 141   | UG/G   | 11    |
| 36-005 | 36-3050  | 0      | Ê | INI     | Nitrotoluono[2]                  | 0.14    | 1000   |       |
| 00-005 | 30-3030  | 2      | 0 | IIN     |                                  | 0.14    | UG/G   | U     |
| 36-005 | 36-3049  | 0      | 6 | IN      | Nitrotoluene[2-]                 | 0.138   | UG/G   | U     |
| 36-005 | 36-3048  | 0      | 6 | IN      | Nitrotoluene[2-]                 | 0 142   | UG/G   | 11    |
| 36-005 | 36-2047  | -<br>- | Ē | INI     | Nitrotoluono[2]                  | 0.172   |        |       |
| 30-005 | 30-304/  | U      | υ | IN      | Nitrotoluene[2-]                 | 0.14    | UG/G   | U     |
| 36-005 | 36-3046  | 0      | 6 | IN      | Nitrotoluene[2-]                 | 0.138   | UG/G   | U     |
| 36-005 | 36-3045  | 0      | 6 | IN      | Nitrotoluene/2-1                 | 0 144   | LIG/G  | -     |
|        |          | -      | ~ |         |                                  | 0.144   | 00/0   | 0     |

| 36-005           | 36-3044  | 0      | 6      | FN I     | Nitrotoluene(2.) | 0.14  | LIG/G |      |
|------------------|----------|--------|--------|----------|------------------|-------|-------|------|
| 26.005           | 26 2042  | 0      | ç      | 111      | Nitrotoluone[2-] | 0.14  | UG/G  |      |
| 30-005           | 30-3043  | 0      | 0      | HN IN I  | Nitrotoldene[2-] | 0.138 | UG/G  |      |
| 36-005           | 36-3042  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.14  | UG/G  | U    |
| 36-005           | 36-3042  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.14  | UG/G  | U    |
| 36-005           | 36-3041  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.138 | UG/G  | UJ   |
| 36-005           | 36-3040  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.14  | UG/G  | UJ   |
| 36-005           | 36-3039  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.138 | UG/G  | UJ   |
| 36-005           | 36-3038  | ñ      | 6      | IN       | Nitrotohiene(2-) | 0 139 | LIG/G |      |
| 00-005           | 00-0000  | 0      | 0      | lin ini  | Nitrotoluere(2-) | 0.109 |       | 05   |
| 36-005           | 36-3037  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.139 | UG/G  | 05   |
| 36-005           | 36-3036  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.139 | UG/G  | UJ   |
| 36-005           | 36-3035  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.142 | UG/G  | UJ   |
| 36-005           | 36-3034  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.139 | UG/G  | UJ   |
| 36-005           | 36-3034  | 0      | 6      | IN       | Nitrotoluene[2-] | 0 139 | UG/G  |      |
| 36 005           | 26 2026  | õ      | e<br>e | IN I     | Nitrotoluono[2]  | 0.100 |       | 00   |
| 30-005           | 30-3020  | 0      | 0      | IN IN    | Nitrotoluene[2+] | 0.14  |       | 0    |
| 36-005           | 36-3025  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.137 | UG/G  | U    |
| 36-005           | 36-3024  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.138 | UG/G  | U    |
| 36-005           | 36-3023  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.139 | UG/G  | υ    |
| 36-005           | 36-3022  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.139 | UG/G  | υ    |
| 36-005           | 36-3021  | 0      | 6      | IN       | Nitrotoluene[2-] | 0 139 | LIG/G | 11   |
| 36 005           | 36 3030  | õ      | ç      | IN       | Nitrotoluono[2]  | 0.129 | UG/G  |      |
| 36-005           | 30-3020  | 0      | 0      | HN IN    | Nitrotoluene[2-] | 0.138 |       | 0    |
| 36-005           | 36-3019  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.138 | UG/G  | U    |
| 36-005           | 36-3018  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.138 | UG/G  | U    |
| 36-005           | 36-3018  | 0      | 6      | IN       | Nitrotoluene[2-] | 0.138 | UG/G  | U    |
| 36-005           | 36-3051  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.159 | UG/G  | U    |
| 36-005           | 36-3050  | 0      | 6      | IN       | Nitrotoluene[3-] | 0 163 | LIG/G | - ŭ  |
| 26 005           | 26 2050  | õ      | 6      | INI      | Nitrotoluono[3]  | 0.163 |       | ŭ    |
| 36-005           | 30-3050  | 0      | 0      | lin in i | Nitrotoluene[3-] | 0.163 |       | 0    |
| 36-005           | 36-3049  | 0      | ъ      | IN       | Nitrotoluene[3-] | 0.159 | UG/G  | U    |
| 36-005           | 36-3048  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.164 | UG/G  | U    |
| 36-005           | 36-3047  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.162 | UG/G  | υ    |
| 36-005           | 36-3046  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | U    |
| 36-005           | 36-3045  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.167 | LIG/G | ũ    |
| 36.005           | 26-2044  | õ      | 6      | IN       | Nitrotoluono[2-] | 0.162 |       | ŭ    |
| 30-005           | 30-30-44 | 0      | 0      | IIN IIN  | Nitrotoldene[3-] | 0.102 |       | U    |
| 36-005           | 36-3043  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | U    |
| 36-005           | 36-3042  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.162 | UG/G  | U    |
| 36-005           | 36-3042  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.162 | UG/G  | U    |
| 36-005           | 36-3041  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | UJ   |
| 36-005           | 36-3040  | 0      | 6      | IN       | Nitrotoluene[3-] | 0 162 | UG/G  | н.   |
| 26 005           | 26 2020  | õ      | é      | IN       | Nitrotoluono[2]  | 0.16  |       |      |
| 36-005           | 36-3039  | 0      | 0      | UN IN    | Nitrotoluene(3-) | 0.16  | UG/G  | 05   |
| 36-005           | 36-3038  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.161 | UG/G  | UJ   |
| 36-005           | 36-3037  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.161 | UG/G  | UJ   |
| 36-005           | 36-3036  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.161 | UG/G  | UJ   |
| 36-005           | 36-3035  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.165 | UG/G  | UJ   |
| 36-005           | 36-3034  | 0      | 6      | IN       | Nitrotoluene[3-] | 0 161 | UG/G  | 0.1  |
| 26 005           | 26 2024  | õ      | é      | IN       | Nitrotoluono[2]  | 0.161 |       |      |
| 30-005           | 30-3034  | 0      | 0      | lin in   | Nitrotoldene[5-] | 0.161 | 00/0  | 00   |
| 36-005           | 36-3026  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.162 | UG/G  | U    |
| 36-005           | 36-3025  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.159 | UG/G  | υ    |
| 36-005           | 36-3024  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | υ    |
| 36-005           | 36-3023  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.161 | UG/G  | Ð    |
| 36,005           | 36-3022  | Ň      | 6      | IN       | Nitrotoluene(3-) | 0.16  | LIG/G | H    |
| 36.005           | 00-0022  | 0      | 6      | IIN INI  | Nitrotoluene[3-] | 0.10  |       |      |
| 36-005           | 36-3021  | U      | 0      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | U    |
| 36-005           | 36-3020  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | U    |
| 36-005           | 36-3019  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | U    |
| 36-005           | 36-3018  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | U    |
| 36-005           | 36-3018  | 0      | 6      | IN       | Nitrotoluene[3-] | 0.16  | UG/G  | u    |
| 36-005           | 36-3051  | 0      | â      | IN       | Nitrotoluene[4-] | 0 185 |       |      |
| 00 000           | 00 0001  | õ      | č      | 114      |                  | 0.100 | 00/0  |      |
| 30-005           | 30-3050  | 0      | D      | IIN      | Nitrotoluene[4-] | 0.189 | UG/G  | U    |
| 36-005           | 36-3050  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.189 | UG/G  | U    |
| 36-005           | 36-3049  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.185 | UG/G  | U    |
| 36-005           | 36-3048  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.191 | UG/G  | U    |
| 36-005           | 36-3047  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.188 | LIG/G | Ŭ.   |
| 26 005           | 26 2046  | õ      | ç      | INI      | Nitrotoluone[4]  | 0.100 |       | ŭ    |
| 30-003           | 30-3040  | 0      | 0      | li N     | Nilioloidene[4+] | 0.166 |       | U    |
| 36-005           | 30-3045  | U      | 6      | IN       | Nitrotoluene[4-] | 0.194 | UG/G  | U    |
| 36-005           | 36-3044  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.188 | UG/G  | U    |
| 36-005           | 36-3043  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.186 | UG/G  | U    |
| 36-005           | 36-3042  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.188 | UG/G  | U    |
| 36-005           | 36-3042  | 0      | 6      | IN       | Nitrotoluene[4-] | 0 188 | 116/6 | ũ    |
| 00-000<br>00-005 | 00 00-12 | ,<br>, | é      | in a     | Nitrotoluono[4-] | 0.100 | 00/0  |      |
| 30-005           | 30-3041  | U      | 0      | HN       | Nitrotoluene[4-] | 0.186 | UG/G  | UJ   |
| 36-005           | 36-3040  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.188 | UG/G  | UJ   |
| 36-005           | 36-3039  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.186 | UG/G  | UJ   |
| 36-005           | 36-3038  | 0      | 6      | IN       | Nitrotoluene[4-] | 0.187 | UG/G  | UJ   |
| 36-005           | 36-3037  | 0      | 6      | IN       | Nitrotoluene[4-] | 0 186 | UG/G  | 11.0 |
| 36-005           | 36-3036  | n<br>n | â      | IN       | Nitrotoluene[4-] | 0 197 | 110/0 | 111  |
| 36 005           | 26 2025  | č      | e      | IN I     | Nitrotoluono[4]  | 0.107 |       |      |
| 30-005           | 30-3035  | U      | o<br>c | UN N     | Nitrotoluene[4-] | 0.191 |       | 00   |
| 36-005           | 36-3034  | U      | 6      | IN       | Nitrotoluene[4-] | 0.187 | UG/G  | UJ   |

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| 00.005 | 00.0004 | •      | ~      | INI        | Nitrotolyono(4.)               | 0 197  |        | 111     |
|--------|---------|--------|--------|------------|--------------------------------|--------|--------|---------|
| 36-005 | 36-3034 | 0      | 0      |            | Nitrotoluene[4-]               | 0.187  |        |         |
| 36-005 | 36-3026 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.188  |        | 0       |
| 36-005 | 36-3025 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.185  | UG/G   | U       |
| 36-005 | 36-3024 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.186  | UG/G   | U       |
| 36-005 | 36-3023 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.187  | UG/G   | U       |
| 36-005 | 36-3022 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.186  | UG/G   | U       |
| 36-005 | 36-3021 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.186  | UG/G   | U       |
| 36-005 | 36-3020 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.186  | UG/G   | U       |
| 36-005 | 36-3019 | 0      | 6      | IN         | Nitrotoluene[4-]               | 0.186  | UG/G   | U       |
| 36 005 | 26 2019 | õ      | é      | IN         | Nitrotoluono[4-]               | 0 185  | LIG/G  | й.      |
| 36-005 | 30-3018 | 0      | 0      | IIN<br>INS | Nitrotoluono(4.)               | 0.100  | UG/G   | U U     |
| 36-005 | 30-3018 | 0      | D      |            |                                | 0.160  |        | 0       |
| 36-005 | 36-3051 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 350    | UG/KG  | U       |
| 36-005 | 36-3050 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 360    | UG/KG  | U       |
| 36-005 | 36-3050 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 350    | UG/KG  | U       |
| 36-005 | 36-3049 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 340    | UG/KG  | U       |
| 36-005 | 36-3048 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 360    | UG/KG  | U       |
| 36-005 | 36-3047 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 390    | UG/KG  | U       |
| 36-005 | 36-3046 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 360    | UG/KG  | υ       |
| 26.005 | 36-3045 | õ      | ě      | IN         | Oxybis(1-chloropropane)[2,2'-] | 380    | UG/KG  | Ū.      |
| 30-005 | 30-3043 | 0      | 6      | IN         | Oxybis(1-chloropropano)[2,2]-] | 380    |        | Ŭ.      |
| 36-005 | 36-3044 | 0      | D<br>O | IN         | Oxybis(1-chloropropane)[2,2*]  | 360    |        | 0       |
| 36-005 | 36-3043 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 360    |        | 0       |
| 36-005 | 36-3042 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 350    | UG/KG  | U       |
| 36-005 | 36-3042 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 340    | UG/KG  | U       |
| 36-005 | 36-3041 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 350    | UG/KG  | U       |
| 36-005 | 36-3040 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 350    | UG/KG  | U       |
| 36-005 | 36-3039 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2.2'-] | 340    | UG/KG  | U       |
| 36-005 | 36-3038 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2 2'-] | 360    | UG/KG  | U       |
| 30-005 | 26 2027 | õ      | 6      | IN         | Oxybis(1-chloropropano)[2,2'-] | 350    |        | ũ       |
| 36-005 | 30-3037 | 0      | 0      | IN         | Oxybis(1-chioropropane)[2,2-]  | 340    | UG/KG  | U U     |
| 36-005 | 36-3036 | 0      | Ь      | IN         | Oxybis(1-chloropropane)[2,2-]  | 340    |        | 0       |
| 36-005 | 36-3035 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 350    | UG/KG  | U       |
| 36-005 | 36-3034 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 350    | UG/KG  | U       |
| 36-005 | 36-3034 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 350    | UG/KG  | U       |
| 36-005 | 36-3026 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 140000 | UG/KG  | U       |
| 36-005 | 36-3025 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 360    | UG/KG  | U       |
| 36-005 | 36-3024 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 400    | UG/KG  | U       |
| 26.005 | 26-2022 | õ      | ě      | IN         | Oxybis(1-chloropropane)[2,2'-] | 370    | UG/KG  | ц.<br>Ц |
| 30-005 | 30-3023 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 360    |        | Ŭ       |
| 30-005 | 30-3022 | 0      | 0      | IN         | Oxybis(1-chloropropane)[2,2-]  | 300    |        | 0       |
| 36-005 | 36-3021 | 0      | 6      | IN         | Oxybis(1-chioropropane)[2,2-]  | 400    | UG/KG  | U       |
| 36-005 | 36-3020 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2-]  | 370    | UG/KG  | U       |
| 36-005 | 36-3019 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 370    | UG/KG  | U       |
| 36-005 | 36-3018 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 350    | UG/KG  | U       |
| 36-005 | 36-3018 | 0      | 6      | IN         | Oxybis(1-chloropropane)[2,2'-] | 370    | UG/KG  | U       |
| 36-005 | 36-3051 | 0      | 6      | IN         | Pentachlorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3050 | 0      | 6      | IN         | Pentachlorophenol              | 1800   | UG/KG  | U       |
| 26.005 | 26-2050 | Ő      | 6      | IN         | Pentachlorophenol              | 1700   | LIG/KG |         |
| 30-005 | 30-3030 | 0      | 6      | IN         | Pentachlorophenel              | 1700   | UG/KG  |         |
| 36-005 | 36-3049 | 0      | 0      | IN         | Pentachiorophenol              | 1700   |        | 0       |
| 36-005 | 36-3048 | 0      | 6      | IN         | Pentachiorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3047 | 0      | 6      | IN         | Pentachlorophenol              | 2000   | UG/KG  | U       |
| 36-005 | 36-3046 | 0      | 6      | IN         | Pentachlorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3045 | 0      | 6      | IN         | Pentachlorophenol              | 1900   | UG/KG  | U       |
| 36-005 | 36-3044 | 0      | 6      | IN         | Pentachlorophenol              | 1900   | UG/KG  | U       |
| 36-005 | 36-3043 | 0      | 6      | IN         | Pentachlorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3042 | 0      | 6      | IN         | Pentachlorophenol              | 1700   | UG/KG  | Û       |
| 36-005 | 36-3042 | õ      | ě      | IN         | Pentachlorophenol              | 1700   | UG/KG  | ů       |
| 30-005 | 30-3042 | 0      | 6      | IN         | Pentachlorophenol              | 1700   | UG/KG  | Ŭ       |
| 36-005 | 36-3041 | 0      | 0      | lin        | Pentachiorophenol              | 1700   |        | U       |
| 36-005 | 36-3040 | 0      | 6      | IN         | Pentachiorophenol              | 1700   | UG/KG  | U       |
| 36-005 | 36-3039 | 0      | 6      | IN         | Pentachlorophenol              | 1700   | UG/KG  | U       |
| 36-005 | 36-3038 | 0      | 6      | IN         | Pentachlorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3037 | 0      | 6      | IN         | Pentachlorophenol              | 1700   | UG/KG  | U       |
| 36-005 | 36-3036 | 0      | 6      | IN         | Pentachlorophenol              | 1700   | UG/KG  | U       |
| 36-005 | 36-3035 | 0      | 6      | IN         | Pentachlorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3034 | 0<br>0 | 6      | IN         | Pentachlorophenol              | 1700   | UG/KG  | ŭ       |
| 26,005 | 36-2024 | 0      | â      | IN         | Pentachlorophenol              | 1800   | UG/KG  | -       |
| 00-005 | 00-0004 | Š      | 6      | IN INI     | Bantachlerenhenel              | 680000 |        | U U     |
| 30-005 | 30-3020 | 0      | 0<br>C | IN         | Pentachiorophenol              | 00000  |        | U       |
| 36-005 | 36-3025 | U      | 6      | IN         | Pentachiorophenoi              | 1800   | UG/KG  | U       |
| 36-005 | 36-3024 | 0      | 6      | IN         | Pentachlorophenol              | 2000   | UG/KG  | U       |
| 36-005 | 36-3023 | 0      | 6      | IN         | Pentachlorophenol              | 1900   | UG/KG  | U       |
| 36-005 | 36-3022 | 0      | 6      | IN         | Pentachlorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3021 | 0      | 6      | IN         | Pentachlorophenol              | 2000   | UG/KG  | U       |
| 36-005 | 36-3020 | 0      | 6      | IN         | Pentachlorophenol              | 1900   | UG/KG  | -<br>U  |
| 36-005 | 36-3010 | ñ      | ă      | IN         | Pentachlorophenol              | 1900   |        | Ц       |
| 36 005 | 00-0018 | 0      | 6      | in t       | Pontachiorophonol              | 1700   |        |         |
| 30-005 | 30-3018 | 0      | 0      | IN         | Pentachiorophenor              | 1700   |        | 0       |
| 36-005 | 36-3018 | U      | 6      | IN         | rentachiorophenol              | 1800   | UG/KG  | U       |
| 36-005 | 36-3051 | 0      | 6      | IN         | Phenanthrene                   | 350    | UG/KG  | U       |

1.50 Mg

|                 | 36-005 | 36-3050 | 0      | 6      | IN         | Phenanthrene | 360         | UG/KG | υ   |
|-----------------|--------|---------|--------|--------|------------|--------------|-------------|-------|-----|
| 1 <sup>61</sup> | 36-005 | 36-3050 | ō      | 6      | IN         | Phenanthrene | 350         | UG/KG | U   |
|                 | 36-005 | 36-3049 | õ      | 6      | IN         | Phenanthrene | 340         | UG/KG | U   |
| Ye: .           | 36-005 | 36-3048 | õ      | 6      | IN         | Phenanthrene | 360         | UG/KG | υ   |
|                 | 36-005 | 36-3047 | 0<br>0 | 6      | IN         | Phenanthrene | 390         | UG/KG | υ   |
|                 | 36-005 | 36-3046 | 0      | 6      | IN         | Phenanthrene | 360         | UG/KG | U   |
|                 | 36-005 | 36-3045 | 0      | 6      | IN         | Phenanthrene | 380         | UG/KG | υ   |
|                 | 36-005 | 36-3044 | 0      | 6      | IN         | Phenanthrene | 380         | UG/KG | Ú   |
|                 | 30-005 | 36-3043 | 0      | 6      | IN         | Phenanthrene | 360         | UG/KG | - Ū |
|                 | 30-005 | 30-3043 | 0      | 6      | IN         | Phenanthrono | 350         | UG/KG | ŭ   |
|                 | 36-005 | 30-3042 | 0      | 0      | IN         | Phenanthrene | 330         | UG/KG | ů.  |
|                 | 36-005 | 36-3042 | 0      | 0      |            | Phenesthene  | 340         | UG/KG |     |
|                 | 36-005 | 36-3041 | 0      | 6      | IN         | Phenanthrene | 350         |       |     |
|                 | 36-005 | 36-3040 | 0      | 6      | IN         | Phenanthrene | 350         |       |     |
|                 | 36-005 | 36-3039 | 0      | 6      | IN         | Phenanthrene | 340         | UG/KG | 0   |
|                 | 36-005 | 36-3038 | 0      | 6      | IN         | Phenanthrene | 360         | UG/KG |     |
|                 | 36-005 | 36-3037 | 0      | 6      | IN         | Phenanthrene | 350         | UG/KG |     |
|                 | 36-005 | 36-3036 | 0      | 6      | IN         | Phenanthrene | 340         | UG/KG |     |
|                 | 36-005 | 36-3035 | 0      | 6      | IN         | Phenanthrene | 350         | UG/KG |     |
|                 | 36-005 | 36-3034 | 0      | 6      | IN         | Phenanthrene | 350         | UG/KG | 0   |
|                 | 36-005 | 36-3034 | 0      | 6      | IN         | Phenanthrene | 350         | UG/KG | U   |
|                 | 36-005 | 36-3026 | 0      | 6      | IN         | Phenanthrene | 140000      | UG/KG | U   |
|                 | 36-005 | 36-3025 | 0      | 6      | IN         | Phenanthrene | 360         | UG/KG | U   |
|                 | 36-005 | 36-3024 | 0      | 6      | IN         | Phenanthrene | 400         | UG/KG | U   |
|                 | 36-005 | 36-3023 | 0      | 6      | IN         | Phenanthrene | 370         | UG/KG | U   |
|                 | 36-005 | 36-3022 | 0      | 6      | IN         | Phenanthrene | 360         | UG/KG | U   |
|                 | 36-005 | 36-3021 | 0      | 6      | IN         | Phenanthrene | 400         | UG/KG | U   |
|                 | 36-005 | 36-3020 | 0      | 6      | IN         | Phenanthrene | 370         | UG/KG | U   |
|                 | 36-005 | 36-3019 | 0      | 6      | IN         | Phenanthrene | 370         | UG/KG | U   |
|                 | 36-005 | 36-3018 | 0      | 6      | IN         | Phenanthrene | 350         | UG/KG | υ   |
|                 | 36-005 | 36-3018 | 0      | 6      | IN         | Phenanthrene | 370         | UG/KG | υ   |
|                 | 36-005 | 36-3051 | 0      | 6      | IN         | Phenol       | 350         | UG/KG | υ   |
|                 | 36-005 | 36-3050 | 0      | 6      | IN         | Phenol       | 360         | UG/KG | υ   |
|                 | 36-005 | 36-3050 | 0      | 6      | IN         | Phenol       | 350         | UG/KG | υ   |
|                 | 36-005 | 36-3049 | 0      | 6      | IN         | Phenol       | 340         | UG/KG | U   |
|                 | 36-005 | 36-3048 | 0      | 6      | IN         | Phenol       | 360         | UG/KG | U   |
|                 | 36-005 | 36-3047 | 0      | 6      | IN         | Phenol       | 390         | UG/KG | υ   |
|                 | 36-005 | 36-3046 | ő      | 6      | IN         | Phenol       | 360         | UG/KG | υ   |
| A.              | 36-005 | 36-3045 | õ      | 6      | IN         | Phenol       | 380         | UG/KG | U   |
| a.              | 36-005 | 36-3044 | õ      | 6      | IN         | Phenol       | 380         | UG/KG | Ū   |
|                 | 36-005 | 36-3043 | Ő      | 6      | IN         | Phenol       | 360         | UG/KG | ŭ   |
|                 | 36.005 | 26-2042 | õ      | 6      | IN         | Phenol       | 350         | UG/KG | Ŭ   |
|                 | 36-005 | 36-3042 | õ      | 6      | IN         | Phenol       | 340         | UG/KG | Ŭ   |
|                 | 36-005 | 26 2041 | 0      | 6      | IN         | Phenol       | 350         | UG/KG | ŭ   |
|                 | 36-005 | 30-3041 | 0      | 6      | IN         | Phenoi       | 350         | UG/KG | ŭ   |
|                 | 30-005 | 30-3040 | 0      | 6      | IN         | Phonol       | 340         | UG/KG | ŭ   |
|                 | 36-005 | 30-3039 | 0      | 0      | IN         | Phenol       | 360         | UG/KG |     |
|                 | 36-005 | 36-3038 | 0      | 0      | IN IN      | Phenol       | 300         | UG/KG |     |
|                 | 36-005 | 36-3037 | 0      | D      | IIN        | Phenol       | 350         |       |     |
|                 | 36-005 | 36-3036 | 0      | 0      | IN         | Phenol       | 340         |       |     |
|                 | 36-005 | 36-3035 | 0      | 6      | IN         | Phenol       | 350         |       |     |
|                 | 36-005 | 36-3034 | 0      | 6      | IN         | Phenol       | 350         | UG/KG |     |
|                 | 36-005 | 36-3034 | 0      | 6      | IN         | Phenol       | 350         | UG/KG | U   |
|                 | 36-005 | 36-3026 | 0      | 6      | IN         | Phenol       | 140000      | UG/KG | U   |
|                 | 36-005 | 36-3025 | 0      | 6      | IN         | Phenol       | 360         | UG/KG | U   |
|                 | 36-005 | 36-3024 | 0      | 6      | IN         | Phenol       | 400         | UG/KG | U   |
|                 | 36-005 | 36-3023 | 0      | 6      | IN         | Phenol       | 370         | UG/KG | U   |
|                 | 36-005 | 36-3022 | 0      | 6      | IN         | Phenol       | 360         | UG/KG | υ   |
|                 | 36-005 | 36-3021 | 0      | 6      | IN         | Phenol       | 400         | UG/KG | U   |
|                 | 36-005 | 36-3020 | 0      | 6      | IN         | Phenol       | 370         | UG/KG | U   |
|                 | 36-005 | 36-3019 | 0      | 6      | IN         | Phenol       | 370         | UG/KG | U   |
|                 | 36-005 | 36-3018 | 0      | 6      | IN         | Phenol       | 350         | UG/KG | U   |
|                 | 36-005 | 36-3018 | 0      | 6      | IN         | Phenol       | 370         | UG/KG | U   |
|                 | 36-005 | NA      |        |        |            | Potassium    | 802         | MG/KG |     |
|                 | 36-005 | 36-3051 | 0      | 6      | IN         | Potassium    | 640         | MG/KG | U   |
|                 | 36-005 | 36-3050 | ō      | 6      | IN         | Potassium    | 1410        | MG/KG |     |
|                 | 36-005 | 36-3050 | ñ      | 6      | IN         | Potassium    | 1430        | MG/KG |     |
|                 | 36-005 | 36-3049 | ñ      | 6      | IN         | Potassium    | 515         | MG/KG | IJ  |
|                 | 30-005 | 26-2049 | ő      | 6      | IN         | Potassium    | 2270        | MG/KG | Ŭ   |
|                 | 30-005 | 30-3040 | 0      | e      | IIN<br>INI | Potassium    | 1200        | MG/KG |     |
|                 | 30-005 | 30-304/ | 0      | C<br>C |            | Potassium    | F75         | MG/KG |     |
|                 | 30-005 | 30-3040 | 0      | 0      |            | Potassium    | 5/5<br>0740 | MG/KG | J   |
|                 | 36-005 | 36-3045 | U      | 6      | in         | Potassium    | 2/40        |       |     |
|                 | 36-005 | 36-3044 | U      | 6      | IN         |              | 1360        | MG/KG |     |
|                 | 36-005 | 36-3043 | U      | 6      | IN         | Potassium    | 592         | MG/KG | U   |
|                 | 36-005 | 36-3042 | 0      | 6      | IN         | Potassium    | 1460        | MG/KG |     |
|                 | 36-005 | 36-3042 | 0      | 6      | IN         | Potassium    | 1450        | MG/KG |     |

|        |          | _      | _   |      |                     | 4500   | Newc   |       |
|--------|----------|--------|-----|------|---------------------|--------|--------|-------|
| 36-005 | 36-3041  | 0      | 6   | IN   | Potassium           | 1520   | MG/KG  |       |
| 36-005 | 36-3040  | 0      | 6   | IN   | Potassium           | 1590   | MG/KG  |       |
| 36-005 | 36-3039  | 0      | Ē   | IN   | Potassium           | 1290   | MG/KG  |       |
| 00-005 | 00-0000  | 0      | 0   | in s | Fotassium           | 1230   | Marica |       |
| 36-005 | 36-3038  | 0      | 6   | IN   | Potassium           | 1790   | MG/KG  |       |
| 36-005 | 36-3037  | 0      | 6   | IN   | Potassium           | 1610   | MG/KG  |       |
| 36-005 | 36-3036  | 0      | 6   | IN   | Potassium           | 1810   | MG/KG  |       |
| 26 005 | 26 2025  | õ      | č   | 111  | Pataasium           | 1010   | Marica |       |
| 30-005 | 30-3035  | 0      | ь   | IN   | Potassium           | 2240   | MG/KG  |       |
| 36-005 | 36-3034  | 0      | 6   | IN   | Potassium           | 1370   | MG/KG  |       |
| 36-005 | 36-3034  | 0      | 6   | IN   | Potassium           | 1570   | MG/KG  |       |
| 26 005 | 26 0000  | õ      | č   |      | Bit                 | 1570   |        |       |
| 36-005 | 36-3026  | 0      | 6   | IN   | Potassium           | 1270   | MG/KG  |       |
| 36-005 | 36-3025  | 0      | 6   | IN   | Potassium           | 636    | MG/KG  | U     |
| 36-005 | 36-3024  | 0      | 6   | IN   | Potassium           | 1180   | MG/KG  |       |
| 00 000 | 00 0024  | č      | 0   | 114  | i otassium          | 1160   | WG/KG  |       |
| 36-005 | 36-3023  | U      | 6   | IN   | Potassium           | 1440   | MG/KG  |       |
| 36-005 | 36-3022  | 0      | 6   | IN   | Potassium           | 873    | MG/KG  | U     |
| 36-005 | 36-3021  | 0      | 6   | IN   | Potassium           | 1070   | MG/KG  | ū     |
| 00 000 | 00 0021  | č      | 0   |      | l otassium          | 1070   | WG/KG  | 0     |
| 36-005 | 36-3020  | U      | ь   | IN   | Potassium           | 1080   | MG/KG  | U     |
| 36-005 | 36-3019  | 0      | 6   | IN   | Potassium           | 1070   | MG/KG  |       |
| 36-005 | 36-3018  | 0      | 6   | IN   | Potassium           | 1210   | MG/KG  |       |
| 00 005 | 00 0010  | õ      | č   |      | Bataasium           | 1210   | MG/KG  |       |
| 36-005 | 36-3018  | U      | 6   | IN   | Potassium           | 869    | MG/KG  | U     |
| 36-005 | 36-3051  | 0      | 6   | IN   | Propylbenzene[1-]   | 5      | UG/KG  | U     |
| 36-005 | 36-3050  | 0      | 6   | IN   | Pronvibenzene [1-]  | 6      | LIG/KG | Ū.    |
| 00 000 | 00 0000  | č      |     |      |                     | 0      | UG/KG  | 0     |
| 36-005 | 36-3050  | 0      | 6   | IN   | Propyidenzene[1-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3049  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3048  | 0      | 6   | IN   | Propylbenzene[1_]   | F      | LIG/KG | 1.0   |
| 30-003 | 30-30-40 | 0      | 0   |      | Tropyidenzene[1-]   | 0      | UG/KG  | 05    |
| 36-005 | 36-3047  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3046  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | U     |
| 00 005 | 26 2045  | -      | ē   | INI  | Brenulhanzana[1]    | -<br>- |        |       |
| 36-005 | 30-3045  | U      | D D | IIN  | Propyidenzene[1-j   | 6      | UG/KG  | UJ    |
| 36-005 | 36-3044  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | UJ    |
| 36-005 | 36-3043  | 0      | 6   | IN   | Pronvibenzene[1-]   | 5      | HG/KG  | 11    |
| 00 000 | 00 00 40 |        |     |      |                     | ő      |        |       |
| 36-005 | 36-3042  | 0      | 6   | IN   | Propyidenzene[1-]   | 6      | UG/KG  | UJ    |
| 36-005 | 36-3042  | 0      | 6   | IN   | Propylbenzene[1-]   | 5      | UG/KG  | UJ    |
| 36-005 | 36-3041  | 0      | 6   | IN   | Propulbenzene[1]    | 5      | LIG/KG | 11    |
| 00-000 | 50-50-41 | 0      | 0   |      |                     | 5      | UQ/KQ  | 0     |
| 36-005 | 36-3040  | 0      | 6   | IN   | Propylbenzene(1-J   | 5      | UG/KG  | U     |
| 36-005 | 36-3039  | 0      | · 6 | IN   | Propylbenzene(1-)   | 5      | UG/KG  | U     |
| 36-005 | 36-3038  | Ó      | ĥ   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | -<br> |
| 30-005 | 30-3030  | U      | 0   | IIN  | FTOPyIDerizene[1+]  | 0      | UG/KG  | 0     |
| 36-005 | 36-3037  | 0      | 6   | IN   | Propylbenzene[1-]   | 5      | UG/KG  | U     |
| 36-005 | 36-3036  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | U     |
| 26 005 | 26 2025  | Ō      | Ē   | INF  | Bropulbonzono[1]    | c c    | UCIKC  |       |
| 30-005 | 30-3035  | 0      | o   | IN   | Propyidenzene[1-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3034  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3034  | 0      | 6   | IN   | Propylbenzene[1-]   | 5      | UG/KG  | 11    |
| 20 005 | 00 0000  | õ      | č   | 10 1 | Describer and 1     | 05     | UQ/KQ  |       |
| 30-005 | 30-3020  | 0      | D   | IN   | Propyidenzene[1-]   | 25     | UG/KG  | U     |
| 36-005 | 36-3025  | 0      | 6   | IN   | Propylbenzene[1-]   | 5      | UG/KG  | υ     |
| 36-005 | 36-3024  | 0      | 6   | IN   | Pronvibenzene[1-]   | 6      | LIG/KG | 11    |
| 00 000 | 00 0000  | õ      | č   | 18.1 | Dreadbarran (4.)    | °,     | 00/100 |       |
| 36-005 | 36-3023  | 0      | 6   | IN   | Propyidenzene[1-]   | 6      | UG/KG  | UJ    |
| 36-005 | 36-3022  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3021  | 0      | 6   | IN:  | Pronvibenzene[1.]   | 6      | UG/KG  |       |
| 00-000 | 00-0021  | ě      | 0   |      |                     | 0      | UG/KG  | 05    |
| 36-005 | 36-3020  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | UJ    |
| 36-005 | 36-3019  | 0      | . 6 | IN   | Propylbenzene[1-]   | 6      | UG/KG  | U     |
| 36-005 | 36-3018  | 0      | 6   | IN   | Propylbenzene[1-]   | c -    | LIG/KG |       |
| 30-003 | 00-0010  | 0      | 0   |      | Flopyibelizerie[1-] | 0      | UG/KG  | U     |
| 36-005 | 36-3018  | 0      | 6   | IN   | Propylbenzene[1-]   | 6      | UG/KG  | υ     |
| 36-005 | 36-3051  | 0      | 6   | IN   | Pvrene              | 350    | UG/KG  | U U   |
| 36-005 | 36-3050  | 0      | 6   | INI  | Purane              | 260    |        | - ū   |
| 00-005 | 00-0000  | 0      | 0   | 11.1 | ryrene              | 300    | UG/KG  | U     |
| 36-005 | 36-3050  | 0      | 6   | IN   | Pyrene              | 350    | UG/KG  | U     |
| 36-005 | 36-3049  | 0      | 6   | IN   | Pyrene              | 340    | UG/KG  | U     |
| 36-005 | 36-3048  | 0      | 6   | IN   | Pyrene              | 260    | LIG/KG |       |
| 00 000 | 00 00 10 | 5      |     |      | i yiciic            | 300    | Jana   | 0     |
| 36-005 | 36-3047  | U      | 6   | IN   | Pyrene              | 390    | UG/KG  | U     |
| 36-005 | 36-3046  | 0      | 6   | IN   | Pvrene              | 360    | UG/KG  | U     |
| 36-005 | 36-3045  | 0      | 6   | IN   | Pureno              | 290    | UC/KC  | - ū   |
| 30-003 | 30-3043  | 0      |     | 111  | Fylerie             | 360    | UG/KG  | 0     |
| 36-005 | 36-3044  | U      | 6   | IN   | Pyrene              | 380    | UG/KG  | U     |
| 36-005 | 36-3043  | 0      | 6   | IN   | Pyrene              | 360    | UG/KG  | Ð     |
| 26-005 | 26-2042  | Δ      | 6   | INI  | Pyrono              | 250    | HOKO   | , e   |
| 00-005 | 30-3042  | U<br>C | 0   | 0.1  | Fyrene              | 350    | UG/KG  | U     |
| 36-005 | 36-3042  | 0      | 6   | IN   | Pyrene              | 340    | UG/KG  | U     |
| 36-005 | 36-3041  | 0      | 6   | IN   | Pyrene              | 350    | UG/KG  | 11    |
| 26.005 | 26.2040  | 0      | é   | IN   | Burene              | 000    |        | ŭ     |
| 30-005 | 30-3040  | U      | U   | IN   | ryrene              | 350    | UG/KG  | U     |
| 36-005 | 36-3039  | 0      | 6   | IN   | Pyrene              | 340    | UG/KG  | U     |
| 36-005 | 36-3038  | n      | 6   | IN   | Pyrene              | 260    | LIG/KC |       |
| 00 000 | 00.000   | ~      | ~   |      | , yielle            | 300    | UG/KG  | U     |
| 36-005 | 36-3037  | U      | 6   | IN   | Pyrene              | 350    | UG/KG  | U     |
| 36-005 | 36-3036  | 0      | 6   | IN   | Pyrene              | 340    | UG/KG  | U     |
| 36-005 | 36.3035  | n.     | Ē   | IN   | Pyrene              | 0-0    | LIGIKO | ŭ     |
| 00-003 | 30-3035  | U U    | 0   | UN . | ryrene              | 350    | UG/KG  | U     |
| 36-005 | 36-3034  | 0      | 6   | IN   | Pyrene              | 350    | UG/KG  | U     |
| 36-005 | 36-3034  | 0      | 6   | IN   | Pyrene              | 350    | UG/KG  | 11    |
| 20 000 | 00 0000  | č      | č   | 181  | Durana              | 550    |        |       |
| 30-005 | 30-3026  | U      | ъ   | IIN  | ryrene              | 140000 | UG/KG  | U     |
| 36-005 | 36-3025  | 0      | 6   | IN   | Pyrene              | 360    | UG/KG  | Ų     |
| 36-005 | 36-3024  | 0      | 6   | IN   | Pyrene              | 400    | LIG/KG | i.    |
|        | 00 0024  | •      |     |      | i yiciic            | 400    | Jun a  | 0     |

|                   | 36-005 | 36-3023       | Λ | 6      | IN   | Pyrene   | 370   | UG/KG | U  |
|-------------------|--------|---------------|---|--------|------|----------|-------|-------|----|
| <sup>1</sup> د می | 36-005 | 36-3022       | Ő | 6      | IN   | Pyrene   | 360   | UG/KG | U  |
|                   | 36-005 | 36-3021       | Ő | 6      | IN   | Pyrene   | 400   | UG/KG | U  |
| Ne.               | 36-005 | 36-3020       | 0 | 6      | IN   | Pyrene   | 370   | UG/KG | U  |
|                   | 36.005 | 36-3020       | 0 | 6      | IN   | Pyrene   | 370   | UG/KG | U  |
|                   | 36.005 | 26 2019       | 0 | 6      | IN   | Pyrene   | 350   | UG/KG | U  |
|                   | 36-005 | 36 3019       | 0 | 6      | IN   | Pyrene   | 370   | UG/KG | U  |
|                   | 36-005 | 30-3010       | 0 | 6      | IN   | BDX      | 0.169 | UG/G  | υ  |
|                   | 36-005 | 30-3031       | 0 | 6      | IN   | BDX      | 0.172 | UG/G  | υ  |
|                   | 36-005 | 30-3050       | 0 | 6      | IN   | BDY      | 0 172 | UG/G  | Ū  |
|                   | 36-005 | 36-3050       | 0 | 6      | IN   | BDY      | 0 169 | UG/G  | Ū  |
|                   | 36-005 | 36-3049       | 0 | 6      | IN   | BDX      | 0 174 | UG/G  | Ū  |
|                   | 36-005 | 36-3040       | 0 | 6      | IN   | BDX      | 0 172 | UG/G  | Ū  |
|                   | 36-005 | 30-3047       | 0 | 6      | IN   | BDX      | 0 169 | UG/G  | Ŭ  |
|                   | 36-005 | 30-3046       | 0 | 0      | IN   | BDY      | 0.176 | UG/G  | Ū. |
|                   | 36-005 | 36-3045       | 0 | 6      | IN   | RDX      | 0.172 | UG/G  | ŭ  |
|                   | 36-005 | 36-3044       | 0 | 6      | IN   | BDX      | 0 169 | UG/G  | Ū  |
|                   | 36-005 | 30-3043       | 0 | 6      | IN   | BDX      | 0.172 | UG/G  | Ū  |
|                   | 36-005 | 30-3042       | 0 | 6      | IN   | BDX      | 0 172 | UG/G  | ū  |
|                   | 36-005 | 30-3042       | 0 | 6      | IN   | BDX      | 0.069 | UG/G  | Ū  |
|                   | 36-005 | 30-3041       | 0 | 6      | IN   | BDX      | 0 172 | UG/G  | ũ  |
|                   | 36-005 | 36-3040       | 0 | 6      | IN   | BDX      | 0 17  | UG/G  | Ŭ  |
|                   | 36-005 | 30-3039       | 0 | 6      | iN   | BDX      | 0 171 | UG/G  | ū  |
|                   | 36-005 | 30-3038       | 0 | 6      | IN   | BDX      | 0.17  | UG/G  | ũ  |
|                   | 36-005 | 26 2026       | 0 | 6      | IN   | BDX      | 0.171 | UG/G  | Ū  |
|                   | 36-005 | 30-3030       | 0 | 6      | IN   | BDX      | 0.174 | UG/G  | Ŭ  |
|                   | 36-005 | 36-3035       | 0 | 6      | IN   | BDX      | 0.171 | UG/G  | Ū  |
|                   | 36-005 | 36-3034       | 0 | 6      | IN   | BDX      | 0.171 | UG/G  | ŭ  |
|                   | 36-005 | 26 2026       | ő | 6      | IN   | BDX      | 0 171 | UG/G  | Ū  |
|                   | 36-005 | 30-3020       | 0 | 6      | IN   | BDX      | 0 163 | UG/G  | Ū  |
|                   | 36-005 | 36-3023       | 0 | 6      | IN   | BDX      | 0.165 | UG/G  | Ū  |
|                   | 36-005 | 30-3024       | 0 | 6      | IN   | BDX      | 0.165 | UG/G  | Ū  |
|                   | 36-005 | 36-3023       | 0 | 6      | IN   | BDX      | 1.72  | UG/G  | -  |
|                   | 36-005 | 36-3022       | 0 | 6      | iN   | BDX      | 0.165 | UG/G  | υ  |
|                   | 30-005 | 36-3021       | 0 | 6      | IN   | BDX      | 0.164 | UG/G  | Ū  |
|                   | 30-005 | 36-3010       | 0 | 6      | IN   | BDX      | 0.165 | UG/G  | Ū  |
|                   | 36-005 | 36-3019       | 0 | 6      | IN   | BDX      | 0.164 | UG/G  | Ū  |
| 19                | 36-005 | 36-3018       | Ő | 6      | IN   | BDX      | 0.164 | UG/G  | Ū  |
| 1.<br>            | 36-005 | 50-5010<br>NA | 0 | Ū      |      | Selenium | 9.7   | MG/KG | J  |
|                   | 36-005 | 26 2051       | 0 | 6      | IN   | Selenium | 0.33  | MG/KG | Ū  |
|                   | 36-005 | 36-3050       | 0 | 6      | IN   | Selenium | 0.27  | MG/KG | Ū  |
|                   | 36-005 | 36-3050       | Ő | 6      | IN   | Selenium | 0.53  | MG/KG | Ū  |
|                   | 36-005 | 36-3049       | 0 | ě      | IN   | Selenium | 0.27  | MG/KG | υ  |
|                   | 36-005 | 36-3048       | 0 | 6      | IN   | Selenium | 0.28  | MG/KG | υ  |
|                   | 36-005 | 36-3047       | Ő | 6      | IN   | Selenium | 0.3   | MG/KG | U  |
|                   | 36-005 | 36-3046       | Ő | 6      | IN   | Selenium | 0.27  | MG/KG | υ  |
|                   | 36-005 | 36-3045       | ő | 6      | IN   | Selenium | 0.29  | MG/KG | U  |
|                   | 36-005 | 36-3044       | õ | 6      | IN   | Selenium | 0.28  | MG/KG | U  |
|                   | 36-005 | 36-3043       | ő | 6      | IN   | Selenium | 0.38  | MG/KG | U  |
|                   | 36-005 | 36-3042       | Ő | 6      | IN   | Selenium | 0.25  | MG/KG | U  |
|                   | 36-005 | 36-3042       | õ | 6      | IN   | Selenium | 0.27  | MG/KG | υ  |
|                   | 36-005 | 36-3041       | õ | 6      | IN   | Selenium | 0.25  | MG/KG | UR |
|                   | 36-005 | 36-3040       | õ | 6      | IN   | Selenium | 0.25  | MG/KG | UR |
|                   | 36-005 | 36-3039       | õ | 6      | IN   | Selenium | 0.25  | MG/KG | UR |
|                   | 36-005 | 36-3038       | 0 | 6      | IN   | Selenium | 0.26  | MG/KG | UR |
|                   | 36-005 | 36-3037       | õ | 6      | IN   | Selenium | 0.26  | MG/KG | UR |
|                   | 36-005 | 36-3036       | õ | 6      | IN   | Selenium | 0.26  | MG/KG | UR |
|                   | 36-005 | 36-3035       | õ | 6      | IN   | Selenium | 0.26  | MG/KG | UR |
|                   | 36-005 | 36-3034       | õ | 6      | IN   | Selenium | 0.27  | MG/KG | UR |
|                   | 36-005 | 36-3034       | õ | 6      | IN   | Selenium | 0.26  | MG/KG | UR |
|                   | 36-005 | 36-3026       | õ | 6      | IN   | Selenium | 0.27  | MG/KG | U  |
|                   | 36-005 | 36-3025       | õ | 6      | IN   | Selenium | 0.28  | MG/KG | UR |
|                   | 36-005 | 36-3024       | õ | 6      | IN   | Selenium | 0.29  | MG/KG | UR |
|                   | 36-005 | 36-3023       | õ | 6      | IN   | Selenium | 0.29  | MG/KG | UR |
|                   | 36-005 | 36-3022       | õ | 6      | IN   | Selenium | 0.29  | MG/KG | UR |
|                   | 36-005 | 36-3021       | ñ | ě      | IN   | Selenium | 0.29  | MG/KG | UR |
|                   | 36-005 | 36-3020       | ñ | ě      | IN   | Selenium | 0.27  | MG/KG | UR |
|                   | 30-005 | 36-3020       | ñ | ĥ      | IN   | Selenium | 0.28  | MG/KG | UR |
|                   | 36-005 | 36-3018       | ñ | 6      | IN   | Selenium | 0.28  | MG/KG | UR |
|                   | 36-005 | 36-3018       | ñ | 6      | IN   | Selenium | 0.29  | MG/KG | UR |
|                   | 36-005 | NA            | v | Ū      |      | Silver   | 33.3  | MG/KG |    |
|                   | 36-005 | 36-2051       | ٥ | 6      | IN   | Silver   | 1.3   | MG/KG | υ  |
|                   | 36-005 | 36-2050       | 0 | e<br>e | IN   | Silver   | 1.1   | MG/KG | Ŭ  |
|                   | 36-005 | 36-3050       | 0 | e<br>e | IN   | Silver   | 0.58  | MG/KG | Ū  |
|                   | 30-005 | 30-3030       | v | 0      | 10 4 | 00       | 0.00  |       | 2  |

| 36-005 | 36-3049 | 0   | 6      | IN         | Silver    | 0.83 | MG/KG  | 11  |
|--------|---------|-----|--------|------------|-----------|------|--------|-----|
| 36-005 | 36-3048 | Õ   | 6      | IN         | Silver    | 1.00 | MG/KG  |     |
| 36,005 | 26-2047 | õ   | ç      | IN         | Silver    | 1.4  | Marka  |     |
| 30-005 | 30-3047 | 0   | 0      |            | Silver    | 1.3  | MG/KG  | 0   |
| 36-005 | 36-3046 | 0   | 6      | IN         | Silver    | 1    | MG/KG  | U   |
| 36-005 | 36-3045 | 0   | 6      | IN         | Silver    | 1.2  | MG/KG  | U   |
| 36-005 | 36-3044 | 0   | 6      | IN         | Silver    | 1.3  | MG/KG  | U   |
| 36-005 | 36-3043 | 0   | 6      | IN         | Silver    | 1.2  | MG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN         | Silver    | 0.72 | MG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN         | Silver    | 13   | MG/KG  | Ű   |
| 36-005 | 36-3041 | 0   | 6      | IN         | Silver    | 0.52 | MG/KC  |     |
| 30-005 | 00-0041 | 0   | 0      | IIN IIN    | Silver    | 0.52 | MG/KG  | 0   |
| 36-005 | 36-3040 | U   | ь      | IN         | Silver    | 0.52 | MG/KG  | U   |
| 36-005 | 36-3039 | 0   | 6      | IN         | Silver    | 0.5  | MG/KG  | U   |
| 36-005 | 36-3038 | 0   | 6      | IN         | Silver    | 0.54 | MG/KG  | U   |
| 36-005 | 36-3037 | 0   | 6      | IN         | Silver    | 0.52 | MG/KG  | υ   |
| 36-005 | 36-3036 | 0   | 6      | IN         | Silver    | 0.52 | MG/KG  | 11  |
| 36-005 | 36-3035 | 0   | 6      | IN         | Silver    | 0.53 | MG/KG  |     |
| 36-005 | 36-3034 | õ   | 6      | INI        | Silver    | 0.50 | Marka  | ŭ   |
| 26 005 | 26 2024 | õ   | 6      | INI        | Silver    | 0.52 | MG/KG  | 0   |
| 30-005 | 30-3034 | 0   | 0      | IN         | Silver    | 0.53 | MG/KG  | U   |
| 36-005 | 36-3026 | 0   | 6      | IN         | Silver    | 0.54 | MG/KG  | U   |
| 36-005 | 36-3025 | 0   | 6      | IN         | Silver    | 0.51 | MG/KG  | υ   |
| 36-005 | 36-3024 | 0   | 6      | IN         | Silver    | 0.8  | MG/KG  | U   |
| 36-005 | 36-3023 | 0   | 6      | IN         | Silver    | 0.51 | MG/KG  | u   |
| 36-005 | 36-3022 | 0   | 6      | IN         | Silver    | 0.72 | MG/KG  | ŭ   |
| 36-005 | 36-3021 | . 0 | 6      | IN         | Silver    | 0.52 | MG/KG  | ŭ   |
| 26 005 | 36 2020 | 0   | ě      | IN         | Cilver    | 0.55 | MG/KG  |     |
| 30-005 | 30-3020 | 0   | 0      | IN         | Silver    | 0.5  | MG/KG  | U   |
| 36-005 | 36-3019 | U   | 6      | IN         | Silver    | 0.49 | MG/KG  | U   |
| 36-005 | 36-3018 | 0   | 6      | IN         | Silver    | 0.49 | MG/KG  | U   |
| 36-005 | 36-3018 | 0   | 6      | IN         | Silver    | 0.51 | MG/KG  | U   |
| 36-005 | NA      |     |        |            | Sodium    | 326  | MG/KG  | Ð   |
| 36-005 | 36-3051 | 0   | 6      | IN         | Sodium    | 84.1 | MG/KG  | U U |
| 36-005 | 36-3050 | õ   | 6      | IN         | Sodium    | 04.1 | Marka  |     |
| 36-005 | 36 3050 | 0   | 0      | IIN<br>INI | Sodium    | 90   | MG/KG  | U   |
| 36-005 | 30-3050 | 0   | 0      | IN         | Sodium    | 76.1 | MG/KG  | U   |
| 36-005 | 36-3049 | 0   | 6      | IN         | Sodium    | 84.8 | MG/KG  | U   |
| 36-005 | 36-3048 | 0   | 6      | IN         | Sodium    | 136  | MG/KG  | υ   |
| 36-005 | 36-3047 | 0   | 6      | IN         | Sodium    | 86.9 | MG/KG  | υ   |
| 36-005 | 36-3046 | 0   | 6      | IN         | Sodium    | 80.9 | MG/KG  | ū   |
| 36-005 | 36-3045 | 0   | 6      | IN         | Sodium    | 116  | MG/KG  | ü   |
| 36-005 | 36-3044 | õ   | ě      | IN         | Sedium    | 76.1 | Marka  |     |
| 00-000 | 00-0044 | 0   | 0      |            | Sodium    | 76.1 | MG/KG  | 0   |
| 30-005 | 30-3043 | 0   | 0      | IIN        | Soaium    | 86.9 | MG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN         | Sodium    | 85.6 | MG/KG  | U   |
| 36-005 | 36-3042 | 0   | 6      | IN         | Sodium    | 99.2 | MG/KG  | U   |
| 36-005 | 36-3041 | 0   | 6      | IN         | Sodium    | 480  | MG/KG  | UR  |
| 36-005 | 36-3040 | 0   | 6      | IN         | Sodium    | 417  | MG/KG  | LIB |
| 36-005 | 36-3039 | 0   | 6      | IN         | Sodium    | 451  | MG/KG  |     |
| 36-005 | 36-3038 | õ   | ě      | INI        | Sodium    | 410  | MG/KG  |     |
| 36.005 | 30-3030 | 0   | 0      |            | South     | 412  | MG/KG  | UH  |
| 36-005 | 30-3037 | U   | ь      | IN         | Sodium    | 407  | MG/KG  | UR  |
| 36-005 | 36-3036 | 0   | 6      | IN         | Sodium    | 428  | MG/KG  | UR  |
| 36-005 | 36-3035 | 0   | 6      | IN         | Sodium    | 392  | MG/KG  | UR  |
| 36-005 | 36-3034 | 0   | 6      | IN         | Sodium    | 387  | MG/KG  | UB  |
| 36-005 | 36-3034 | 0   | 6      | IN         | Sodium    | 106  | MG/KG  | UB  |
| 36-005 | 36-3026 | Ô   | 6      | IN         | Sodium    | 91   | MG/KG  | 011 |
| 26 005 | 26 2026 | õ   | e<br>e | 114        | Codium    | 81   | MG/KG  | 0   |
| 30-005 | 30-3023 | 0   | 0      | ANN NO.    | Sodium    | 85.5 | MG/KG  | U   |
| 36-005 | 36-3024 | U   | 6      | IN         | Sodium    | 101  | MG/KG  | U   |
| 36-005 | 36-3023 | 0   | 6      | IN         | Sodium    | 92   | MG/KG  | U   |
| 36-005 | 36-3022 | 0   | 6      | IN         | Sodium    | 112  | MG/KG  | υ   |
| 36-005 | 36-3021 | 0   | 6      | IN         | Sodium    | 88.6 | MG/KG  | U   |
| 36-005 | 36-3020 | 0   | 6      | IN         | Sodium    | 83.7 | MG/KG  | ŭ   |
| 36-005 | 36-3019 | 0   | 6      | IN         | Sodium    | 66.7 | Marka  | ŭ   |
| 36-005 | 26-2019 | ő   | 6      | IN         | Sedium    | 66   | MG/KG  | U   |
| 30-005 | 30-3016 | 0   | 0      |            | Sodium    | 95.6 | MG/KG  | U   |
| 36-005 | 36-3018 | 0   | 6      | IN         | Sodium    | 81.9 | MG/KG  | U   |
| 36-005 | 36-3051 | 0   | 6      | IN         | Styrene   | 5    | UG/KG  | υ   |
| 36-005 | 36-3050 | 0   | 6      | IN         | Styrene   | 6    | UG/KG  | U   |
| 36-005 | 36-3050 | 0   | 6      | IN         | Styrene   | 6    | LIG/KG | Ū.  |
| 36-005 | 36-3049 | 0   | 6      | IN         | Styrene   | 6    |        |     |
| 36-005 | 36-3048 | ñ   | Â      | INI        | Shrono    | 0    |        |     |
| 36-005 | 36 3047 | ~   | 6      | 111        | Character | 6    | UG/KG  | U   |
| 30-005 | 30-3047 | U   | D      | IN         | Styrene   | 6    | UG/KG  | U   |
| 36-005 | 36-3046 | 0   | 6      | IN         | Styrene   | 6    | UG/KG  | U   |
| 36-005 | 36-3045 | 0   | 6      | IN         | Styrene   | 6    | UG/KG  | U   |
| 36-005 | 36-3044 | 0   | 6      | IN         | Styrene   | 6    | UG/KG  | ū   |
| 36-005 | 36-3043 | 0   | 6      | IN         | Styrene   | 5    | UG/KG  | ů.  |
| 36-005 | 36-3042 | ñ   | 6      | IN         | Styrene   | 0    |        |     |
| 36-005 | 36-3042 | õ   | 6      | IN         | Stylene   | 6    | UG/KG  | UJ  |
| 00-003 | 00-0042 | 0   | o<br>o | AN N       | Styrene   | 5    | UG/KG  | U   |
| 30-005 | 36-3041 | U   | 6      | IN         | Styrene   | 5    | UG/KG  | U   |
| 36-005 | 36-3040 | 0   | 6      | IN         | Styrene   | 5    | UG/KG  | U   |

| 26.005 | 00 0000  | ^      | •   | INI        | Church                                  | _      | 110/1/0 |       |
|--------|----------|--------|-----|------------|-----------------------------------------|--------|---------|-------|
| 30-005 | 30-3039  | 0      | 6   | IIN        | Styrene                                 | 5      | UG/KG   | U     |
| 36-005 | 36-3038  | 0      | 6   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36,3037  | 0      | 6   | IN         | Shireno                                 | 5      | LIGKO   |       |
| 00-000 | 00 0007  | 0      | 0   |            | Styrene                                 | 5      | UG/KG   | 0     |
| 36-005 | 36-3036  | 0      | 6   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36-3035  | 0      | 6   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36.3034  | 0      | 6   | INI        | Shirepo                                 | -      | UGIKO   | Ū.    |
| 00 000 | 00 0004  | 0      | 0   |            | Otyrene                                 | 0      | UG/KG   | 0     |
| 36-005 | 36-3034  | 0      | 6   | IN         | Styrene                                 | 5      | UG/KG   | U     |
| 36-005 | 36-3026  | 0      | 6   | IN         | Styrene                                 | 25     | UG/KG   | U     |
| 36-005 | 26.2025  | Ō      | Ē   | INI        | Shrono                                  | -      | UCIKO   |       |
| 30-003 | 30-3023  | U      | 0   | IEN        | Styrene                                 | 5      | UG/KG   | U     |
| 36-005 | 36-3024  | 0      | 6   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36-3023  | 0      | 6   | IN         | Styrene                                 | 6      |         | 14    |
| 00 005 | 00 0000  | 0      | č   |            | Cityronia<br>Otherana                   | 0      | Uand    |       |
| 30-005 | 30-3022  | U      | ю   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36-3021  | 0      | 6   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36-3020  | 0      | 6   | IN         | Styrene                                 | 6      | LIG/KG  | 11    |
| 00 000 | 00 0010  | ő      | č   |            | Otyrene                                 | 0      | Ud/KG   | 0     |
| 36-005 | 36-3019  | 0      | ъ   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36-3018  | 0      | 6   | IN         | Styrene                                 | 6      | UG/KG   | U     |
| 36-005 | 36-3018  | 0      | 6   | 1N         | Styrene                                 | 6      |         |       |
| 20 005 | 20 2051  | õ      | ç   | 1.1        | Totrachiorestherealt 4.4.0.1            | ç      | Uairca  | 0     |
| 36-005 | 36-3051  | 0      | ю   | IN         | i etrachioroethane[1,1,1,2-j            | 5      | UG/KG   | U     |
| 36-005 | 36-3050  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | υ     |
| 36-005 | 36-3050  | n      | 6   | <b>ENI</b> | Tetrachloroethane[1,1,1,2,]             | 6      | UGIKG   | - ū   |
| 00 000 | 00 0000  | ě      | 0   |            |                                         | 0      | UG/KG   | U     |
| 36-005 | 36-3049  | 0      | 6   | IN         | l etrachioroethane[1,1,1,2-]            | 6      | UG/KG   | U     |
| 36-005 | 36-3048  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | U     |
| 36-005 | 36-3047  | Ο      | 6   | INL        | Tetrachloroethane(1,1,1,2,)             | 6      | UGIKO   |       |
| 00-005 | 00-0047  | 0      | 0   | 11.14      | retraction oeurane[1,1,1,2-]            | 0      | UG/KG   | U     |
| 36-005 | 36-3046  | 0      | 6   | IN         | l etrachloroethane[1,1,1,2-]            | 6      | UG/KG   | υ     |
| 36-005 | 36-3045  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | 11    |
| 26.005 | 26.2044  | Ô      | Ē   | IN         | Totrophoroothone(1,1,1,2,3              | ĉ      | LIQ/KQ  |       |
| 30-005 | 30-3044  | 0      | 0   | IIN        | retrachioroethane[1,1,1,2-]             | 0      | UG/KG   | U     |
| 36-005 | 36-3043  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 5      | UG/KG   | U     |
| 36-005 | 36-3042  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | LIG/KG  | 11.1  |
| 26 005 | 26 2042  | ,<br>o | e e | INI        |                                         | ç      | UQIKQ   |       |
| 30-005 | 30-3042  | 0      | Ð   | IN         | Tetrachioroethane[1,1,1,2-]             | 5      | UG/KG   | U     |
| 36-005 | 36-3041  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 5      | UG/KG   | U     |
| 36-005 | 36-3040  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 5      | LIG/KG  |       |
| 20 005 | 00 0000  | õ      | õ   |            |                                         | 5      | Udinda  |       |
| 30-005 | 30-3039  | U      | 0   | IIN        | i etrachioroethane[1,1,1,2-j            | 5      | UG/KG   | U     |
| 36-005 | 36-3038  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | U     |
| 36-005 | 36-3037  | 0      | 6   | IN         | Tetrachloroethane[1 1 1 2-]             | 5      | LIG/KG  |       |
| 36 005 | 26 2026  | Å      | Ē   | INI        |                                         | 0      | UQIKQ   |       |
| 30-005 | 30-3030  | U      | 0   | IIN        | retrachoroethane[1,1,1,2-]              | 6      | UG/KG   | U     |
| 36-005 | 36-3035  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | U     |
| 36-005 | 36-3034  | 0      | 6   | IN         | Tetrachioroethane[1 1 1 2-]             | 6      | LIG/KG  | 11    |
| 26.005 | 26 2024  | 0      | Ē   | IN         | Totropheroethano[1,1,1,2]               | e<br>E | Uoiko   |       |
| 30-005 | 30-3034  | U      | 0   | IIN        | retrachioroethane[1,1,1,2-]             | 5      | UG/KG   | U     |
| 36-005 | 36-3026  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 25     | UG/KG   | U     |
| 36-005 | 36-3025  | 0      | 6   | IN         | Tetrachloroethane(1,1,1,2-)             | 5      | LIG/KG  |       |
| 26 005 | 26 2024  | õ      | č   | 1.1        |                                         | 5      | UG/KG   | 0     |
| 30-005 | 36-3024  | U      | 6   | IN         | l etrachioroethane[1,1,1,2-]            | 6      | UG/KG   | U     |
| 36-005 | 36-3023  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | U     |
| 36-005 | 36-3022  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | , ii  |
| 00 000 | 00 0022  | Š      | 0   |            |                                         | 0      | UG/KG   | U     |
| 30-005 | 30-3021  | U      | ь   | IN         | l etrachioroethane[1,1,1,2-]            | 6      | UG/KG   | U     |
| 36-005 | 36-3020  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | υ     |
| 36-005 | 36-3019  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2,1             | 6      | LIG/KG  |       |
| 00 000 | 00 0010  | 0      | 0   |            |                                         | 0      | UG/KG   | Ų     |
| 36-005 | 36-3018  | U      | 6   | IN         | i etrachioroethane[1,1,1,2-]            | 6      | UG/KG   | υ     |
| 36-005 | 36-3018  | 0      | 6   | IN         | Tetrachloroethane[1,1,1,2-]             | 6      | UG/KG   | U     |
| 36-005 | 36-3051  | 0      | 6   | IN         | Tetrachloroethanel1 1 2 2-1             | Ē      | LIG/KG  |       |
| 00 000 | 00.0001  | 0      | 0   |            | Tenachioroethane[1,1,2,2-]              | 5      | UG/KG   | 0     |
| 36-005 | 36-3050  | 0      | 6   | IN         | l etrachioroethane[1,1,2,2-]            | 6      | UG/KG   | U     |
| 36-005 | 36-3050  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 6      | UG/KG   | LI LI |
| 36-005 | 36.3040  | 0      | 6   | IN         | Tetrachiercotheno[1,1,2,2,]             | 6      |         | ŭ     |
| 00-000 | 30-30-43 | 0      | 0   |            | Tellachioroethane[1,1,2,2-]             | 0      | UG/KG   | U     |
| 36-005 | 36-3048  | 0      | 6   | IN         | l etrachloroethane[1,1,2,2-]            | 6      | UG/KG   | UJ    |
| 36-005 | 36-3047  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 6      | UG/KG   | 11    |
| 26-005 | 26 2046  | Δ      | 6   | IN         | Totrophoropthono(1,1,2,0,)              | 0      | UQ#CO   |       |
| 00-000 | 30-30-40 |        | 0   |            | renachioroenane[1,1,2,2-]               | 6      | UG/KG   | 0     |
| 36-005 | 36-3045  | 0      | 6   | IN.        | Tetrachloroethane[1,1,2,2-]             | 6      | UG/KG   | UJ    |
| 36-005 | 36-3044  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 6      | LIG/KG  | 111   |
| 36-005 | 36-3043  | 0      | 6   | INI        | Totrophoropthono[1,1,2,2,1              | 5      | UQ/KQ   |       |
| 30-005 | 00-0040  | 0      | 0   | IIN        | Tetrachioroethane[1,1,2,2-]             | 5      | UG/KG   | U     |
| 36-005 | 36-3042  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 6      | UG/KG   | UJ    |
| 36-005 | 36-3042  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 5      | LIG/KG  | 111   |
| 26.005 | 26-2041  | ů.     | e   | INI        | Totrachloroothana[1,1,2,2]              | 5      | UQ/KQ   | 00    |
| 36-005 | 30-3041  | 0      | o   | IIN        | retrachioroethane[1,1,2,2-j             | 5      | UG/KG   | U     |
| 36-005 | 36-3040  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 5      | UG/KG   | υ     |
| 36-005 | 36-3039  | 0      | 6   | IN         | Tetrachloroethane[1 1 2 2-]             | 5      | UG/KG   |       |
| 20 000 | 00 0000  | č      | 5   |            |                                         | 5      | UG/KG   |       |
| 30-005 | 30-3038  | U      | 6   | IN         | i etrachioroethane[1,1,2,2-]            | 6      | UG/KG   | U     |
| 36-005 | 36-3037  | 0      | 6   | IN         | Tetrachloroethane[1.1.2.2-]             | 5      | UG/KG   | u     |
| 36-005 | 36-3036  | 0      | 6   | IN         | Tetrachloroethane[1 1 2 2-1             | 6      |         | ŭ     |
| 00 000 | 00.0000  | 0      | 5   |            |                                         | Ö      | UG/KG   | , U   |
| 36-005 | 36-3035  | 0      | 6   | IN         | i etrachioroethane[1,1,2,2-]            | 6      | UG/KG   | U     |
| 36-005 | 36-3034  | 0      | 6   | IN         | Tetrachloroethane[1.1.2.2-]             | 6      | UG/KG   | IJ    |
| 36-005 | 36-3034  | Λ      | 6   | IN         | Tetrachloroethane(1,1,2,2,1             | -<br>- | LICKO   |       |
| 00-000 | 00-0004  | 5      | -   | 1111       |                                         | 5      | UG/KG   | U     |
| 36-005 | 36-3026  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 25     | UG/KG   | U     |
| 36-005 | 36-3025  | 0      | 6   | IN         | Tetrachloroethane[1 1 2 2-]             | 5      | UG/KG   |       |
| 26 005 | 25 2004  | č      | ě   | 18.1       |                                         | 5      |         |       |
| 30-005 | 30-3024  | U      | o   | IN         | retrachioroethane[1,1,2,2-]             | 6      | UG/KG   | U     |
| 36-005 | 36-3023  | 0      | 6   | IN         | Tetrachloroethane[1,1,2,2-]             | 6      | UG/KG   | UJ    |
| 36-005 | 36-3022  | n      | 6   | IN         | Tetrachloroethane[1,1,2,2-1             | -<br>- | LIG/KG  | 11    |
| 00 000 |          | ~      |     |            | · • · · · · · · · · · · · · · · · · · · | U      | ua/Na   | U     |

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|------------------|--------------------|---|--------|-------------|-----------------------------|--------------|----------------------------|--------|
| 36-005           | 36-3021            | 0 | 6      | IN          | Tetrachloroethane[1,1,2,2-] | 6            | UG/KG                      | 03     |
| 36-005           | 36-3020            | 0 | 6      | IN          | Tetrachloroethane[1,1,2,2-] | 6            | UG/KG                      | UJ     |
| 36-005           | 36-3019            | 0 | 6      | IN          | Tetrachloroethane[1,1,2,2-] | 6            | UG/KG                      | U      |
| 26.005           | 26-2018            | õ | 6      | IN          | Tetrachloroethane[1,1,2,2-] | 6            | UG/KG                      | U      |
| 36-005           | 30-3018            | 0 | 0      | IN          | Tetrachloroethane[1,1,2,2]  | 6            | UG/KG                      | U      |
| 36-005           | 36-3018            | 0 | ь      | IN          |                             | e<br>E       |                            | ц.     |
| 36-005           | 36-3051            | 0 | 6      | IN          | letrachioroethene           | 3            | UQ/KG                      | ŭ      |
| 36-005           | 36-3050            | 0 | 6      | IN          | Tetrachioroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3050            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3049            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 26.005           | 26 2048            | ñ | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | υ      |
| 36-005           | 30-3046            | 0 | 0      | IN          | Tetrachleroathono           | 6            | UG/KG                      | U      |
| 36-005           | 36-3047            | 0 | D      | IIN         | Telacilloidellielle         | °<br>C       | HC/KC                      | ŭ      |
| 36-005           | 36-3046            | 0 | 6      | IN          | retrachioroethene           | 0            | UG/KG                      | 0      |
| 36-005           | 36-3045            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3044            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3043            | 0 | 6      | IN          | Tetrachloroethene           | 5            | UG/KG                      | U      |
| 36-005           | 36-3042            | Ō | 6      | iN          | Tetrachloroethene           | 6            | UG/KG                      | UJ     |
| 30-005           | 30-3042            | Õ | ŝ      | IN          | Tetrachloroethene           | 5            | UG/KG                      | U      |
| 36-005           | 30-3042            | 0 | 0      | IN          | Tetrachloroethono           | 5            | UG/KG                      | ů.     |
| 36-005           | 36-3041            | U | D      | 1154        | Tetracilioroetherie         | 5            | UG/KG                      | U U    |
| 36-005           | 36-3040            | 0 | 6      | IN          | letrachioroethene           | 5            |                            | 0      |
| 36-005           | 36-3039            | 0 | 6      | IN          | Tetrachloroethene           | 5            | UG/KG                      | U      |
| 36-005           | 36-3038            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3037            | 0 | 6      | IN          | Tetrachloroethene           | 5            | UG/KG                      | U      |
| 26-005           | 36-3036            | Ō | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 30-003           | 26 2025            | õ | e<br>e | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 30-3035            | 0 | 0      | 111         | Tetrachlereathana           | Ē            | UG/KG                      | 11     |
| 36-005           | 36-3034            | 0 | 6      | IN          | Tettachioroethene           | e<br>F       |                            |        |
| 36-005           | 36-3034            | 0 | 6      | IN          | letrachioroethene           | 5            |                            |        |
| 36-005           | 36-3026            | 0 | 6      | IN          | Tetrachloroethene           | 25           | UG/KG                      | U      |
| 36-005           | 36-3025            | 0 | 6      | IN          | Tetrachloroethene           | 5            | UG/KG                      | υ      |
| 36-005           | 36-3024            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36.005           | 26 2022            | ő | ě      | IN          | Tetrachloroethene           | 6            | UG/KG                      | υ      |
| 36-005           | 30-3023            | 0 | 6      | IN          | Totrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3022            | 0 | 0      | lini<br>ini | Tetrachioroethene           | e<br>e       | UG/KG                      | Ű      |
| 36-005           | 36-3021            | 0 | 6      | IN          | retractionoetherie          | 0            |                            | ŭ      |
| 36-005           | 36-3020            | 0 | 6      | IN          | ietrachioroethene           | 6            | UG/KG                      | 0      |
| 36-005           | 36-3019            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3018            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 36-005           | 36-3018            | 0 | 6      | IN          | Tetrachloroethene           | 6            | UG/KG                      | U      |
| 26 005           | 26 2051            | õ | ē      | IN          | Tetryl                      | 0.091        | UG/G                       | UJ     |
| 30-005           | 30-3031            | 0 | 6      | INF         | Tetrol                      | 0.093        | UG/G                       | U.J    |
| 36-005           | 36-3050            | 0 | 0      | 114         | Tetral                      | 0.002        |                            | 111    |
| 36-005           | 36-3050            | 0 | ь      | IN          | Tetry                       | 0.095        |                            |        |
| 36-005           | 36-3049            | 0 | 6      | IN          | letryl                      | 0.091        | UG/G                       | 0.5    |
| 36-005           | 36-3048            | 0 | 6      | IN          | Tetryl                      | 0.094        | UG/G                       | UJ     |
| 36-005           | 36-3047            | 0 | 6      | IN          | Tetryi                      | 0.092        | UG/G                       | UJ     |
| 36-005           | 36-3046            | 0 | 6      | IN          | Tetryl                      | 0.091        | UG/G                       | UJ     |
| 26 005           | 26 2045            | õ | é      | IN          | Tetrvi                      | 0.095        | UG/G                       | UJ     |
| 30-005           | 30-3043            | 0 | 6      | INI         | Tetry                       | 0.092        | UG/G                       | 11.1   |
| 36-005           | 36-3044            | 0 | 6      |             | Tetry                       | 0.001        | 116/6                      |        |
| 36-005           | 36-3043            | 0 | 6      | IN          | letryi                      | 0.091        | UG/G                       | 05     |
| 36-005           | 36-3042            | 0 | 6      | IN          | Tetryl                      | 0.093        | UG/G                       | 00     |
| 36-005           | 36-3042            | 0 | 6      | IN          | Tetryl                      | 0.093        | UG/G                       | UJ     |
| 36-005           | 36-3041            | 0 | 6      | IN          | Tetryl                      | 0.091        | UG/G                       | υ      |
| 26.005           | 36-3040            | 0 | Â      | IN          | Tetrvi                      | 0.093        | UG/G                       | υ      |
| 00-005           | 00-00-00           | ő | é      | INI         | Tetry                       | 0.091        | UG/G                       | U      |
| 36-005           | 30-3039            | 0 | 0      | IIN INI     | Total                       | 0.092        | UG/G                       | ŭ      |
| 36-005           | 36-3038            | U | Ö      | IN          | Tetra                       | 0.032        |                            | ŭ      |
| 36-005           | 36-3037            | 0 | 6      | IN          | letryi                      | 0.092        | 00/0                       |        |
| 36-005           | 36-3036            | 0 | 6      | IN          | Tetryl                      | 0.092        | UG/G                       | U      |
| 36-005           | 36-3035            | 0 | 6      | IN          | Tetryl                      | 0.094        | UG/G                       | υ      |
| 36-005           | 36-3034            | 0 | 6      | IN          | Tetryl                      | 0.092        | UG/G                       | υ      |
| 36-005           | 36-3034            | Ó | 6      | IN          | Tetrvi                      | 0.092        | UG/G                       | υ      |
| 26-005           | 26 2026            | ő | 6      | INI         | Tetry                       | 0.092        | UG/G                       | IJJ    |
| 36-005           | 30-3020            | 0 | 0      | 111         | Tetral                      | 0.001        |                            | 11     |
| 36-005           | 36-3025            | 0 | 0      | IN          | Tetry                       | 0.091        | 00/0                       | ŭ      |
| 36-005           | 36-3024            | 0 | 6      | IN          | Tetry                       | 0.091        | 00/0                       |        |
| 36-005           | 36-3023            | 0 | 6      | IN          | Tetryl                      | 0.092        | UG/G                       | U      |
| 36-005           | 36-3022            | 0 | 6      | IN          | Tetryl                      | 0.091        | UG/G                       | U      |
| 36-005           | 36-3021            | 0 | 6      | IN          | Tetryl                      | 0.091        | UG/G                       | U      |
| 36-005           | 36-3020            | Ō | 6      | IN          | Tetrvi                      | 0.091        | UG/G                       | U      |
| 26.005           | 26 2010            | ő | 6      | INI         | Tetryl                      | 0.091        | UG/G                       | ū      |
| 30-005           | 30-3019            | U | 0      | 1114        | Totad                       | 0.001        | 116/6                      |        |
| 36-005           | 36-3018            | 0 | 6      | IN          | reuy                        | 0.091        |                            |        |
| 36-005           | 36-3018            | 0 | 6      | IN          | letryl                      | 0.091        | UG/G                       | U      |
| 36-005           | NA                 |   |        |             | Thallium                    | 7.6          | MG/KG                      | UJ     |
| 36-005           | 36-3051            | 0 | 6      | IN          | Thallium                    | 1.24         | MG/KG                      |        |
| 36-005           | 36-3050            | Ō | 6      | IN          | Thallium                    | 1.27         | MG/KG                      | U      |
| 26.005           | 36.3050            | Ň | ă      | IN          | Thallium                    | 1 27         | MG/KG                      | U      |
| 30-005           |                    |   | U      | 11.1        | r i falli lati i            | · ·          | and a second second second | -      |
| ~~~~             | 00-0000            | ~ | ~      | 16.1        | Thellium                    | + 00         | MG/KG                      | H      |
| 36-005           | 36-3049            | õ | 6      | IN          | Thallium                    | 1.23         | MG/KG                      | U      |
| 36-005<br>36-005 | 36-3049<br>36-3048 | 0 | 6<br>6 | IN<br>IN    | Thallium<br>Thallium        | 1.23<br>1.31 | MG/KG<br>MG/KG             | U<br>U |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3046                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.23             | MG/KG                            | U           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------|------------------|-------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------|-------------|
| 1500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36-005                               | 36-3045                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.33             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3044                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.31             | MG/KG                            | υ           |
| and the second sec | 36-005                               | 36-3043                                  | Ō                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.25             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3042                                  | õ                | 6           | iN                   | Thallium                                                                                                                                                                 | 1.17             | MG/KG                            | υ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3042                                  | 0                | 6           | iN                   | Thallium                                                                                                                                                                 | 1.24             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3041                                  | Ő                | ě           | IN                   | Thallium                                                                                                                                                                 | 0.25             | MG/KG                            | UJ          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36.005                               | 26-2040                                  | õ                | 6           | IN                   | Thallium                                                                                                                                                                 | 0.25             | MG/KG                            | 11          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 30-3040                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 0.25             | MG/KG                            | 0.0         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 30-3039                                  | 0                | 6           | IN                   | Thellium                                                                                                                                                                 | 0.25             | MG/KG                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3038                                  | 0                | 6           | IIN                  | The Work                                                                                                                                                                 | 0.20             | MG/KG                            | 111         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3037                                  | 0                | 6           | IN                   | The Num                                                                                                                                                                  | 0.20             | MG/KG                            | 0.5         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3036                                  | 0                | 6           | IN                   | Inallium                                                                                                                                                                 | 0.26             | MG/KG                            | 05          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3035                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 0.26             | MG/KG                            | 03          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3034                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 0.27             | MG/KG                            | UJ          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3034                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 0.26             | MG/KG                            | UJ          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3026                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.24             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3025                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.3              | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3024                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.31             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3023                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.34             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3022                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.32             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3021                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.34             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3020                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.25             | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3019                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.3              | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3018                                  | 0                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.3              | MG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3018                                  | ñ                | 6           | IN                   | Thallium                                                                                                                                                                 | 1.34             | MG/KG                            | Ū           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3051                                  | õ                | 6           | IN                   | Toluene                                                                                                                                                                  | 5                | UG/KG                            | Ū           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3050                                  | õ                | 6           | IN                   | Toluene                                                                                                                                                                  | ĥ                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30-005                               | 36 3050                                  | õ                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 30-3030                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 30-3049                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 30-3048                                  | 0                | 0           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3047                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3046                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3045                                  | 0                | 6           | IN                   | loluene                                                                                                                                                                  | 6                | UG/KG                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3044                                  | 0                | 6           | IN                   | loluene                                                                                                                                                                  | 6                | UG/KG                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3043                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3042                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | UJ          |
| e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 36-005                               | 36-3042                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3041                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 8                | UG/KG                            |             |
| 16 Con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36-005                               | 36-3040                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3039                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 28               | UG/KG                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3038                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 9                | UG/KG                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3037                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3036                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | υ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3035                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | υ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3034                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | υ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3034                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3026                                  | õ                | ě           | IN                   | Toluene                                                                                                                                                                  | 25               | UG/KG                            | ū           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36.005                               | 26-2025                                  | õ                | 6           | IN                   | Toluene                                                                                                                                                                  | 5                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36 005                               | 26.2024                                  | õ                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30-005                               | 30-3024                                  | 0                | 6           | iNI INI              | Toluene                                                                                                                                                                  | 6                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 30-3023                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3022                                  | 0                | D<br>C      | IN                   | Toluene                                                                                                                                                                  | 6                |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30-005                               | 30-3021                                  | 0                | o<br>c      | IN                   | Toluene                                                                                                                                                                  | o<br>c           |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3020                                  | 0                | 6           | IN                   | Ioluene                                                                                                                                                                  | 6                | UG/KG                            | 0           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3019                                  | 0                | 6           | IN                   | Ioluene                                                                                                                                                                  | b                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3018                                  | 0                | 6           | IN                   | Ioluene                                                                                                                                                                  | 6                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3018                                  | 0                | 6           | IN                   | Toluene                                                                                                                                                                  | 6                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3051                                  | 0                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3050                                  | 0                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 6                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3050                                  | 0                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 6                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3049                                  | 0                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 6                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3048                                  | 0                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 6                | UG/KG                            | υ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3047                                  | Ó                | 6           | IN                   | Trichloro-1.2.2-trifluoroethane[1,1,2-]                                                                                                                                  | 6                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3046                                  | Ō                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 6                | UG/KG                            | บ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3045                                  | õ                | ě           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | ĥ                | UG/KG                            | ū           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3044                                  | õ                | e<br>e      | IN                   | Trichloro-1 2 2-trifluoroethane[1,1,2]                                                                                                                                   | ě                | UG/KG                            | ŭ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30-005                               | 30-3044                                  | 0                | 0<br>F      | - IN<br>INI          | Trichloro-1.2.2-trifluoroethene(1.1.2.1                                                                                                                                  | 5                |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30-005                               | 30-3043                                  | 0                | Ö           | IN IN                | Triphore 1.0.0 trifluoroethane(1,1,2-)                                                                                                                                   | 5                |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3042                                  | U                | 6           | IN                   | Trichlore 1,2,2-trilloree(nane(1,1,2-)                                                                                                                                   | 0                |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3042                                  | 0                | 6           | IN                   | Inchloro-1,2,2-trifiuoroethane[1,1,2-]                                                                                                                                   | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3041                                  | 0                | 6           | IN                   | Inchloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                   | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3040                                  | 0                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 5                | UG/KG                            | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 00-000                               |                                          |                  |             |                      |                                                                                                                                                                          | -                |                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005                               | 36-3039                                  | 0                | 6           | IN                   | Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                                                                  | 5                | UG/KG                            | U           |
| а <sup>д 1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36-005<br>36-005                     | 36-3039<br>36-3038                       | 0<br>0           | 6<br>6      | IN<br>IN             | Trichloro-1,2,2-trifluoroethane[1,1,2-]<br>Trichloro-1,2,2-trifluoroethane[1,1,2-]                                                                                       | 6                | UG/KG<br>UG/KG                   | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 36-005<br>36-005<br>36-005           | 36-3039<br>36-3038<br>36-3037            | 0<br>0<br>0      | 6<br>6<br>6 | IN<br>IN<br>IN       | Trichloro-1,2,2-trifluoroethane[1,1,2-]<br>Trichloro-1,2,2-trifluoroethane[1,1,2-]<br>Trichloro-1,2,2-trifluoroethane[1,1,2-]                                            | 5<br>6<br>5      | UG/KG<br>UG/KG<br>UG/KG          | U<br>U<br>U |
| 2<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 36-005<br>36-005<br>36-005<br>36-005 | 36-3039<br>36-3038<br>36-3037<br>36-3036 | 0<br>0<br>0<br>0 | 6<br>6<br>6 | IN<br>IN<br>IN<br>IN | Trichloro-1,2,2-trifluoroethane[1,1,2-]<br>Trichloro-1,2,2-trifluoroethane[1,1,2-]<br>Trichloro-1,2,2-trifluoroethane[1,1,2-]<br>Trichloro-1,2,2-trifluoroethane[1,1,2-] | 5<br>6<br>5<br>6 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG | U<br>U<br>U |

| 00.005 | 00 0005   | •      | •        |      | T :                                     | 6      | UG/KG  | U       |
|--------|-----------|--------|----------|------|-----------------------------------------|--------|--------|---------|
| 36-005 | 36-3035   | 0      | 6        | IIN  | Trichloro-1,2,2-trinuoroethane[1,1,2-]  | 0      | UC/KG  | ň       |
| 36-005 | 36-3034   | 0      | 6        | IN   | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 6      | UG/KG  |         |
| 36-005 | 36-3034   | 0      | 6        | IN   | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 5      | UG/KG  | U       |
| 36-005 | 36-3026   | 0      | 6        | IN   | Trichloro-1.2.2-trifluoroethane[1,1,2-] | 25     | UG/KG  | U       |
| 36-005 | 36-3025   | 0      | 6        | IN   | Trichloro-1 2 2-trifluoroethane[1,1,2-] | 5      | UG/KG  | IJ      |
| 26 005 | 36 2024   | 0      | 0        | 11.5 | Tithin a 4.0.0 millionathana(4.4.0.1    | ő      | UG/KG  |         |
| 36-005 | 36-3024   | 0      | ь        | IN   | Trichloro-1,2,2-trifluoroethane[1,1,2-j | 6      | UG/KG  | 0       |
| 36-005 | 36-3023   | 0      | 6        | IN   | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 6      | UG/KG  | U       |
| 36-005 | 36-3022   | 0      | 6        | IN   | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 6      | UG/KG  | U       |
| 36-005 | 36-3021   | 0      | 6        | IN   | Trichloro-1.2.2-trifluoroethane[1.1.2-] | 6      | UG/KG  | U       |
| 36-005 | 36-2020   | õ      | é        | INI  | Trichlere 1.2.2 trifluoreethane(1.1.2.) | ç      | UG/KG  |         |
| 30-005 | 30-3020   | 0      | 0        | IIN  | rnchioro-1,2,2-trihuoroethane[1,1,2-]   | b      | UG/KG  | 0       |
| 36-005 | 36-3019   | 0      | 6        | IN   | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 6      | UG/KG  | U       |
| 36-005 | 36-3018   | 0      | 6        | IN   | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 6      | UG/KG  | U       |
| 36-005 | 36-3018   | 0      | 6        | IN   | Trichloro-1.2.2-trifluoroethane[1,1,2-] | 6      | UG/KG  | U       |
| 36-005 | 36-3051   | 0      | 6        | IN   | Trichlorobenzene[1 2 4-]                | 350    | UG/KG  | т.<br>Ц |
| 26 005 | 26 2050   | õ      | c<br>c   | 11 1 | Trichlerchenzene[1,0,4,]                | 350    | UQ/KQ  |         |
| 30-005 | 30-3050   | 0      | D        | 14N  | i richlorobenzene[1,2,4-]               | 360    | UG/KG  | U       |
| 36-005 | 36-3050   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 350    | UG/KG  | · U     |
| 36-005 | 36-3049   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 340    | UG/KG  | U       |
| 36-005 | 36-3048   | 0      | 6        | IN   | Trichlorobenzene[1 2 4-]                | 360    | UG/KG  | н       |
| 26 005 | 26 2047   | 0      | é        | IN   | Trichlerebenzene(1,2,4,1                | 200    |        | Ú.      |
| 30-005 | 30-3047   | 0      | 0        |      |                                         | 390    | UG/KG  |         |
| 36-005 | 36-3046   | 0      | 6        | IN   | I richlorobenzene[1,2,4-]               | 360    | UG/KG  | U       |
| 36-005 | 36-3045   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 380    | UG/KG  | U       |
| 36-005 | 36-3044   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 380    | UG/KG  | U       |
| 26.005 | 26.2042   | 0      | 6        | IN   | Trichlorobenzene(1.2.4-)                | 360    | LIG/KG |         |
| 30-005 | 30-3043   | 0      | , e      | 111  |                                         | 300    | Uaika  |         |
| 36-005 | 36-3042   | 0      | 6        | IN   | I richlorobenzene[1,2,4-]               | 350    | UG/KG  | U       |
| 36-005 | 36-3042   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 340    | UG/KG  | U       |
| 36-005 | 36-3041   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 350    | UG/KG  | UJ      |
| 26 005 | 26 2040   | ů      | Ē        | IN   | Trichlorobonzono[1,2,4,]                | 250    |        |         |
| 30-005 | 30-3040   | 0      | 0        | 115  | Thenlorobenzene[1,2,4-]                 | 350    | UG/KG  | 00      |
| 36-005 | 36-3039   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 340    | UG/KG  | UJ      |
| 36-005 | 36-3038   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 360    | UG/KG  | UJ      |
| 36-005 | 36-3037   | 0      | 6        | IN   | Trichlorobenzene [1,2,4-]               | 350    | UG/KG  | ЦJ      |
| 26 005 | 26 2026   | õ      | e        | INI  | Triphlorobonzono[1,2,4]                 | 340    |        |         |
| 30-005 | 30-3036   | U      | 0        | IIN  | Thenloroberizene[1,2,4-]                | 340    | UG/KG  | 00      |
| 36-005 | 36-3035   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 350    | UG/KG  | UJ      |
| 36-005 | 36-3034   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 350    | UG/KG  | UJ      |
| 36-005 | 36-3034   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 350    | UG/KG  | UJ      |
| 26 005 | 26 2026   | 0      | Ē        | IN   | Trichlerebenzene[1,2,4,]                | 140000 | UG/KG  | 11      |
| 30-005 | 30-3020   | 0      | 0        | 111  |                                         | 140000 | Uaika  |         |
| 36-005 | 36-3025   | 0      | 6        | IN   | I richlorobenzene[1,2,4-]               | 360    | UG/KG  | U       |
| 36-005 | 36-3024   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 400    | UG/KG  | U       |
| 36-005 | 36-3023   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 370    | UG/KG  | U       |
| 36-005 | 36-3022   | 0      | 6        | IN   | Trichlorobenzene(1.2.4-1                | 360    | UG/KG  |         |
| 00-005 | 00 0022   | ő      | č        | IN   | Trichlerebenzene[1,2,4]                 | 400    | UCINC  | ŭ       |
| 30-005 | 30-3021   | U      | ю        | IIN  | Trichlorobenzene[1,2,4-]                | 400    | UG/KG  | U       |
| 36-005 | 36-3020   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 370    | UG/KG  | U       |
| 36-005 | 36-3019   | 0      | 6        | IN   | Trichlorobenzene[1,2,4-]                | 370    | UG/KG  | U       |
| 36-005 | 36-3018   | 0      | 6        | IN   | Trichlorobenzene(1 2 4-1                | 350    | LIG/KG | 11      |
| 00 000 | 00 0010   | õ      | č        | 1.1  |                                         | 030    | UQ/KQ  |         |
| 30-005 | 30-3018   | U      | 6        | IN   | Inchlorobenzene[1,2,4-]                 | 370    | UG/KG  | U       |
| 36-005 | 36-3051   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 5      | UG/KG  | U       |
| 36-005 | 36-3050   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | U       |
| 36-005 | 36-3050   | 0      | 6        | IN   | Trichloroethane[1 t 1-]                 | 6      | LIG/KG | 11      |
| 00 005 | 00 0000   | ő      | č        | 1.1  | Trichleresthene[1,1,1]                  | 8      | UQ/KQ  |         |
| 30-005 | 30-3049   | 0      | o        | IN   | Inchloroethane[1,1,1-]                  | 6      | UG/KG  | U       |
| 36-005 | 36-3048   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | υ       |
| 36-005 | 36-3047   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | υ       |
| 36-005 | 36-3046   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | 11      |
| 26 005 | 26 2045   | õ      | ē        | INI  | Trichlereethane(1,1,1,1)                | č      | UC/KC  | ŭ       |
| 30-005 | 30-3045   | 0      | 0        | 111  | Thenloroethane[1,1,1-]                  | 6      | UG/KG  | 0       |
| 36-005 | 36-3044 - | 0      | 6        | IN   | I richloroethane[1,1,1-]                | 6      | UG/KG  | U       |
| 36-005 | 36-3043   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 5      | UG/KG  | U       |
| 36-005 | 36-3042   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | U       |
| 36-005 | 36-3042   | 0      | 6        | IN   | Trichloroethane[1,1,1,1]                | 5      | LIG/KG | , ii    |
| 00-005 | 00-0042   | ,<br>, | 0        |      |                                         | 5      | Uarka  |         |
| 36-005 | 36-3041   | 0      | b        | IIN  | i richioroethane[1,1,1-]                | 5      | UG/KG  | U       |
| 36-005 | 36-3040   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 5      | UG/KG  | U       |
| 36-005 | 36-3039   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 5      | UG/KG  | U       |
| 36-005 | 36-3038   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | LIG/KG | Ш       |
| 26 005 | 26 2027   | õ      | ě        | INI  | Trichleroetheno[1,1,1]                  | 5      |        | ŭ       |
| 30-005 | 30-3037   | 0      | 0        | IN   | Themoloeurane[1,1,1-]                   | 5      | UG/KG  | U       |
| 36-005 | 36-3036   | 0      | 6        | IN   | Irichloroethane[1,1,1-]                 | 6      | UG/KG  | U       |
| 36-005 | 36-3035   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | U       |
| 36-005 | 36-3034   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | U       |
| 36-005 | 36-3024   | n n    | Â        | IN   | Trichloroethane[1,1,1,1]                | с<br>Г | LIG/KC | ň       |
| 00-000 | 00-0004   | č      | ~        | 11.1 |                                         | 0      |        |         |
| 30-005 | 36-3026   | U      | 6        | IN   | I richioroethane[1,1,1-]                | 25     | UG/KG  | U       |
| 36-005 | 36-3025   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 5      | UG/KG  | U       |
| 36-005 | 36-3024   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | U       |
| 36-005 | 36-3023   | 0      | Â        | IN   | Trichloroethane[1 1 1-]                 | Ā      | LIG/KG |         |
| 00-000 | 00-0020   | 0      | <u> </u> | 111  |                                         | 0      |        |         |
| 30-005 | 36-3022   | U      | 6        | IN   | i richioroethane[1,1,1-]                | 6      | UG/KG  | U       |
| 36-005 | 36-3021   | 0      | 6        | IN   | Trichloroethane[1,1,1-]                 | 6      | UG/KG  | U       |
| 36-005 | 26 2020   | 0      | 6        | IN   | Trichloroethane[1,1,1,1]                | 6      | LIG/KG | U       |
|        | 30-3020   | 0      |          | 0.9  |                                         | 0      | UG/KG  |         |
| 36-005 | 36-3020   | n<br>n | 6        | IN   | Trichloroethane[1,1,1]                  | 0<br>A |        | ň       |
| 36-005 | 36-3020   | 0      | 6        | IN   | Trichloroethane[1,1,1]                  | 6      | UG/KG  | Ŭ       |

|          | 36-005 | 36-3018  | 0      | 6      | IN        | Trichloroethane[1,1,1-]    | 6      | UG/KG | υ   |
|----------|--------|----------|--------|--------|-----------|----------------------------|--------|-------|-----|
|          | 36-005 | 36-3051  | õ      | é      | 1N        | Trichloroethane[1,1,2-]    | 5      | UG/KG | U   |
|          | 36-005 | 26-2050  | õ      | 6      | IN        | Trichloroethane[1,1,2]     | 6      | UG/KG | υ   |
| <u>.</u> | 30-005 | 30-3050  | 0      | 6      | IN        | Triphloroethane[1,1,2-]    | 6      | UG/KG | ū   |
|          | 36-005 | 36-3050  | 0      | 6      |           | Tri-blasethane[1,1,2-]     | 6      | UG/KG | ŭ   |
|          | 36-005 | 36-3049  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      |       |     |
|          | 36-005 | 36-3048  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      |       |     |
|          | 36-005 | 36-3047  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      |       |     |
|          | 36-005 | 36-3046  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3045  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3044  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3043  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 5      | UG/KG | υ   |
|          | 36-005 | 36-3042  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3042  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 5      | UG/KG | U   |
|          | 36-005 | 36-3041  | 0<br>0 | 6      | IN        | Trichloroethane[1,1,2-]    | 5      | UG/KG | U   |
|          | 36.005 | 36-3040  | 0      | é      | IN        | Trichloroethane[1,1,2-]    | 5      | UG/KG | U   |
|          | 36-005 | 36-3039  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 5      | UG/KG | U   |
|          | 36.005 | 36.3038  | Ő      | ě      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | Ū.  |
|          | 30-005 | 36 3037  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 5      | UG/KG | Ū.  |
|          | 36-005 | 00-0000  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG |     |
|          | 36-005 | 30-3030  | 0      | 0      | IN        |                            | 6      | UG/KG |     |
|          | 36-005 | 36-3035  | 0      | 6      | IN        | Trichloss attage [1, 1,2-] | 0      |       |     |
|          | 36-005 | 36-3034  | 0      | 6      | IN        | i richioroethane[3,1,2-]   | 6      |       |     |
|          | 36-005 | 36-3034  | 0      | 6      | IN        | I richloroethane[1,1,2-]   | 5      |       |     |
|          | 36-005 | 36-3026  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 25     | UG/KG | U   |
|          | 36-005 | 36-3025  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 5      | UG/KG | U   |
|          | 36-005 | 36-3024  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3023  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3022  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3021  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3020  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3019  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | U   |
|          | 36-005 | 36-3018  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | υ   |
|          | 36-005 | 36-3018  | 0      | 6      | IN        | Trichloroethane[1,1,2-]    | 6      | UG/KG | υ   |
|          | 36-005 | 36-3051  | 0      | 6      | IN        | Trichloroethene            | 5      | UG/KG | U   |
|          | 36-005 | 36-3050  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3050  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3049  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3048  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3047  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
| King     | 36-005 | 36-3046  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | υ   |
|          | 36-005 | 36-3045  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | υ   |
|          | 36-005 | 36-3044  | õ      | 6      | IN        | Trichloroethene            | 6      | UG/KG | υ   |
|          | 36-005 | 36-3043  | õ      | ě.     | IN        | Trichloroethene            | 5      | UG/KG | Ũ   |
|          | 36-005 | 36-3042  | Õ      | 6      | IN        | Trichloroethene            | 6      | UG/KG | Ū   |
|          | 36-005 | 36-3042  | ñ      | 6      | IN        | Trichloroethene            | 5      | UG/KG | ū   |
|          | 36-005 | 36-3041  | õ      | ő      | IN        | Trichloroethene            | 31     | UG/KG |     |
|          | 36-005 | 36-3040  | õ      | ě      | IN        | Trichloroethene            | 5      | UG/KG | U U |
|          | 30-005 | 30-3040  | 0      | 6      | IN        | Trichloroethono            | 110    | UG/KG | U   |
|          | 36-005 | 30-3039  | 0      | e<br>e | IN        | Trichloroethono            | 35     | UG/KG |     |
|          | 36-005 | 30-3030  | 0      | 6      | IN IN     | Trichleroothono            | 55     | UG/KG | 11  |
|          | 36-005 | 36-3037  | 0      | 0      | IAN INI   | Trichloroethene            | 5      | UG/KG |     |
|          | 36-005 | 36-3036  | 0      | 0      | 11N       | Trichloroethene            | 6      |       |     |
|          | 36-005 | 36-3035  | 0      | 6      | IN        |                            | в      |       |     |
|          | 36-005 | 36-3034  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG |     |
|          | 36-005 | 36-3034  | 0      | 6      | IN        |                            | 5      |       | 0   |
|          | 36-005 | 36-3026  | 0      | 6      | IN        | Irichioroethene            | 25     | UG/KG | U   |
|          | 36-005 | 36-3025  | 0      | 6      | IN        | Irichloroethene            | 5      | UG/KG | U   |
|          | 36-005 | 36-3024  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3023  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3022  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3021  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | υ   |
|          | 36-005 | 36-3020  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | U   |
|          | 36-005 | 36-3019  | 0      | 6      | iN        | Trichloroethene            | 6      | UG/KG | υ   |
|          | 36-005 | 36-3018  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | υ   |
|          | 36-005 | 36-3018  | 0      | 6      | IN        | Trichloroethene            | 6      | UG/KG | υ   |
|          | 36-005 | 36-3051  | 0      | 6      | IN        | Trichlorofluoromethane     | 5      | UG/KG | U   |
|          | 36-005 | 36-3050  | Ō      | 6      | IN        | Trichlorofluoromethane     | 6      | UG/KG | U   |
|          | 36-005 | 36-3050  | ő      | 6      | IN        | Trichlorofluoromethane     | 6      | UG/KG | Ū   |
|          | 36-005 | 36-3049  | ñ      | ĕ      | IN        | Trichlorofluoromethane     | e<br>e | UG/KG | ŭ   |
|          | 36-005 | 36-30/19 | ň      | 6      | IN        | Trichlorofluoromethane     | ě      | UG/KG | . U |
|          | 36-005 | 36-3047  | ň      | e<br>a | IN        | Trichlorofluoromethane     | e<br>e | UG/KG | ŭ   |
|          | 36-005 | 36-3047  | 0      | 6      | IN        | Trichlorofluoromethane     | e<br>e | UG/KG |     |
|          | 30-005 | 30-3040  | 0      | 6      | IN        | Trichlorofluorometheno     | 6      | UG/KG |     |
|          | 30-005 | 30-3045  | 0      | 0      | IN<br>JNI | Trichlorofluoromothono     | 6      | UG/KG |     |
|          | 30-005 | 30-3044  | 0      | Ö      | IN<br>IN  | Trichlorofluoromethane     | 0      |       |     |
| 2        | 36-005 | 30-3043  | U      | 0      | IN IN     | Trichlorofluoromethana     | 5      |       |     |
| 1.4      | 30-005 | 30-3042  | v      | o      | IIN       | Inchoronuoromethane        | Ö      | UG/NG | U   |

| 36-005 | 36-3042 | 0 | 6      | IN       | Trichlorofluoromethane    | 5      | UG/KG  | U   |
|--------|---------|---|--------|----------|---------------------------|--------|--------|-----|
| 36-005 | 36-3041 | õ | 6      | IN       | Trichlorofluoromethane    | 5      | UG/KG  | ū   |
| 36-005 | 36-3040 | Ő | 6      | IN       | Trichlorofluoromethane    | 5      | UG/KG  | ŭ   |
| 36-005 | 36-3030 | 0 | 6      | IN       | Trichlorofluoromethano    | 5      | LIG/KG | Ц   |
| 36-005 | 36-3038 | 0 | 6      | IN       | Trichlorofluoromethano    | 5      | UG/KG  | U U |
| 36-005 | 36-3037 | 0 | 6      | in<br>in | Trichlorofluoromethane    | 5      | UG/KG  |     |
| 36-005 | 30-3037 | 0 | 6      | 11N      | Trichlorofluoromethane    | 5      |        |     |
| 36-005 | 30-3030 | 0 | 0      | HN       | Tichlorofluoromethane     | b      | UG/KG  | 0   |
| 36-005 | 30-3035 | 0 | 6      | IN       | i richiorofiuoromethane   | 6      | UG/KG  | U   |
| 36-005 | 36-3034 | 0 | 6      | IN       | Inchiorofiluoromethane    | 6      | UG/KG  | U   |
| 36-005 | 36-3034 | 0 | 6      | IN       | Trichlorofluoromethane    | 5      | UG/KG  | U   |
| 36-005 | 36-3026 | 0 | 6      | IN       | Trichlorofluoromethane    | 25     | UG/KG  | U   |
| 36-005 | 36-3025 | 0 | 6      | IN       | Trichlorofluoromethane    | 5      | UG/KG  | U   |
| 36-005 | 36-3024 | 0 | 6      | IN       | Trichlorofluoromethane    | 6      | UG/KG  | U   |
| 36-005 | 36-3023 | 0 | 6      | IN       | Trichlorofluoromethane    | 6      | UG/KG  | U   |
| 36-005 | 36-3022 | 0 | 6      | IN       | Trichlorofluoromethane    | 6      | UG/KG  | U   |
| 36-005 | 36-3021 | 0 | 6      | IN       | Trichlorofluoromethane    | 6      | UG/KG  | U   |
| 36-005 | 36-3020 | 0 | 6      | IN       | Trichlorofluoromethane    | 6      | UG/KG  | U   |
| 36-005 | 36-3019 | 0 | 6      | IN       | Trichlorofluoromethane    | 6      | UG/KG  | U   |
| 36-005 | 36-3018 | 0 | 6      | IN       | Trichlorofluoromethane    | 6      | UG/KG  | Ŭ   |
| 36-005 | 36-3018 | õ | ĕ      | IN       | Trichlorofluoromethane    | e<br>e | UG/KG  | 11  |
| 36-005 | 36-3051 | õ | 6      | INI INI  | Trichlorophenol[2.4.5-]   | 1800   | UG/KG  |     |
| 30-005 | 26.2050 | 0 | 6      | IN       | Trichlorophenol[2,4,5]    | 1800   |        |     |
| 30-005 | 30-3050 | 0 | 0      | IIN INI  | Trichlorophenol(2,4,5-)   | 1300   |        |     |
| 36-005 | 36-3050 | 0 | 0      | IIN      | Thenlorophenol(2,4,5-)    | 1700   | UG/KG  | U   |
| 36-005 | 36-3049 | 0 | 6      | IN       | I richlorophenol[2,4,5-]  | 1700   | UG/KG  | U   |
| 36-005 | 36-3048 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | U   |
| 36-005 | 36-3047 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 2000   | UG/KG  | υ   |
| 36-005 | 36-3046 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | U   |
| 36-005 | 36-3045 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1900   | UG/KG  | U   |
| 36-005 | 36-3044 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1900   | UG/KG  | U   |
| 36-005 | 36-3043 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | υ   |
| 36-005 | 36-3042 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1700   | UG/KG  | Ū   |
| 36-005 | 36-3042 | 0 | 6      | IN       | Trichlorophenol[2 4 5-1   | 1700   | UG/KG  |     |
| 36-005 | 36-3041 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1700   | UG/KG  | Ŭ   |
| 36-005 | 36-3040 | Ő | ě      | IN       | Trichlorophenol[2, 1,6]   | 1700   | UG/KG  |     |
| 36.005 | 36-3030 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1700   |        |     |
| 36-005 | 30-3039 | 0 | ç      | 11 N     | Trichlesspheret(2,4,5)    | 1700   |        | U   |
| 36-005 | 30-3038 | 0 | 0      | IN       | Trichlorophenol(2,4,5-)   | 1800   | UG/KG  | 0   |
| 36-005 | 36-3037 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1700   | UG/KG  | U   |
| 36-005 | 36-3036 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1700   | UG/KG  | υ   |
| 36-005 | 36-3035 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | U   |
| 36-005 | 36-3034 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1700   | UG/KG  | U   |
| 36-005 | 36-3034 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | U   |
| 36-005 | 36-3026 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 680000 | UG/KG  | U   |
| 36-005 | 36-3025 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | U   |
| 36-005 | 36-3024 | 0 | 6      | IN       | Trichlorophenol(2,4,5-)   | 2000   | UG/KG  | U   |
| 36-005 | 36-3023 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1900   | UG/KG  | ū   |
| 36-005 | 36-3022 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | Ŭ   |
| 36-005 | 36-3021 | 0 | 6      | IN       | Trichlorophenol[2,4,5-]   | 2000   | UG/KG  | ŭ   |
| 36-005 | 36-3020 | Ō | 6      | IN       | Trichlorophenol(2, 4, 5-) | 1900   | UG/KG  | U U |
| 36-005 | 36-3010 | õ | 6      | IN       | Trichlorophonoli2 4 5-1   | 1900   |        | ŭ   |
| 26.005 | 26 2019 | ő | 6      | IN       | Trichlorophonol[2,4,5]    | 1300   |        | 0   |
| 30-005 | 30-3010 | 0 | e<br>e | HN INC   | Trichlesephane (2,4,5-)   | 1700   | UG/KG  | 0   |
| 30-005 | 30-3018 | 0 | 0      |          | Trichlorophenol[2,4,5-]   | 1800   | UG/KG  | U   |
| 36-005 | 30-3051 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3050 | U | 6      | IN       | Irichlorophenol[2,4,6-]   | 360    | UG/KG  | U   |
| 36-005 | 36-3050 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 350    | UG/KG  | U   |
| 36-005 | 36-3049 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 340    | UG/KG  | U   |
| 36-005 | 36-3048 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 360    | UG/KG  | U   |
| 36-005 | 36-3047 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 390    | UG/KG  | U   |
| 36-005 | 36-3046 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 360    | UG/KG  | U   |
| 36-005 | 36-3045 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 380    | UG/KG  | U   |
| 36-005 | 36-3044 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 380    | UG/KG  | Ū   |
| 36-005 | 36-3043 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 360    | UG/KG  | ũ   |
| 36-005 | 36-3042 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 350    | UG/KG  | ŭ   |
| 36-005 | 36-3042 | 0 | 6      | IN       | Trichlorophenol(2,4,6-)   | 340    | UG/KG  | ŭ   |
| 36-005 | 36-3041 | ő | 6      | IN       | Trichlorophenol/2 4 6-1   | 250    |        |     |
| 36-005 | 36-3040 | ñ | e<br>a | INI      | Trichlorophenol(2,4,0-)   | 300    |        | 0.0 |
| 36-005 | 36-3030 | 0 | 6      | IN IN    | Trichlorophone (2,4,0-)   | 350    |        | 00  |
| 30-005 | 30-3039 | 0 | 0      | 114      | Trichlerente = (2,4,6-)   | 340    | UG/KG  | UJ  |
| 30-005 | 30-3038 | U | 6      | IN       | i richiorophenol[2,4,6-]  | 360    | UG/KG  | UJ  |
| 30-005 | 36-3037 | 0 | 6      | IN       | I richlorophenol[2,4,6-]  | 350    | UG/KG  | UJ  |
| 36-005 | 36-3036 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 340    | UG/KG  | UJ  |
| 36-005 | 36-3035 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 350    | UG/KG  | UJ  |
| 36-005 | 36-3034 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 350    | UG/KG  | UJ  |
| 36-005 | 36-3034 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 350    | UG/KG  | UJ  |
| 36-005 | 36-3026 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 140000 | UG/KG  | U   |
| 36-005 | 36-3025 | 0 | 6      | IN       | Trichlorophenol[2,4,6-]   | 360    | UG/KG  | Ū   |

|            | 36-005 | 36-3024 | 0 | 6 | IN        | Trichlorophenol[2,4,6-]               | 400 | UG/KG | U      |
|------------|--------|---------|---|---|-----------|---------------------------------------|-----|-------|--------|
| 2017       | 36-005 | 36-3023 | õ | 6 | IN        | Trichlorophenol[2,4,6-]               | 370 | UG/KG | U      |
|            | 36-005 | 36-3022 | 0 | 6 | IN        | Trichlorophenol[2,4,6-]               | 360 | UG/KG | U      |
| ~~ :<br>** | 36-005 | 36-3021 | ñ | 6 | IN        | Trichlorophenol[2,4,6-1               | 400 | UG/KG | υ      |
|            | 36-005 | 36-3020 | 0 | 6 | IN        | Trichlorophenol[2,4,6-]               | 370 | UG/KG | Ú      |
|            | 36-005 | 36-3010 | 0 | 6 | IN        | Trichlorophenol[2,4,6]                | 370 | UG/KG | Ū.     |
|            | 30-005 | 30-3019 | 0 | 6 | IN        | Trichlorophenol[2,4,6]                | 350 | UG/KG | ŭ      |
|            | 30-005 | 30-3010 | 0 | 0 |           | Trichlorophenol(2,4,6-)               | 330 | UG/KG |        |
|            | 36-005 | 36-3018 | 0 | 6 | IN        | Trichland and [2,4,6-]                | 370 |       |        |
|            | 36-005 | 36-3051 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 5   |       |        |
|            | 36-005 | 36-3050 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | 0      |
|            | 36-005 | 36-3050 | 0 | 6 | IN        | I richloropropane[1,2,3-]             | 6   | UG/KG | U      |
|            | 36-005 | 36-3049 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3048 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3047 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3046 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3045 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3044 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3043 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 5   | UG/KG | U      |
|            | 36-005 | 36-3042 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | ΟJ     |
|            | 36-005 | 36-3042 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 5   | UG/KG | UJ     |
|            | 36-005 | 36-3041 | ō | 6 | IN        | Trichloropropane[1,2,3-]              | 5   | UG/KG | U      |
|            | 36-005 | 36-3040 | ō | 6 | IN        | Trichloropropane[1,2,3-]              | 5   | UG/KG | U      |
|            | 36-005 | 36-3030 | õ | é | IN        | Trichloropropane[1,2,3-]              | 5   | UG/KG | ũ      |
|            | 36-005 | 36-3039 | õ | 6 | IN        | Trichloropropane[1,2,3-]              | 6   |       | ŭ      |
|            | 36-005 | 30-3030 | 0 | 6 | IN        | Trichloropropane[1,2,3]               | 3   |       |        |
|            | 36-005 | 30-3037 | 0 | 0 | IN        | Trichloropropane[1,2,3*]              | 5   |       |        |
|            | 36-005 | 35-3035 | 0 | 0 | 11N       | Trichlerencepane[1,2,3-]              | 0   |       |        |
|            | 36-005 | 36-3035 | 0 | 6 | IN        | Trichlere and [1,2,3-]                | 6   |       |        |
|            | 36-005 | 36-3034 | 0 | 6 | IN        | I richloropropane[1,2,3-]             | 6   | UG/KG | 0      |
|            | 36-005 | 36-3034 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 5   | UG/KG | U      |
|            | 36-005 | 36-3026 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 25  | UG/KG | U      |
|            | 36-005 | 36-3025 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 5   | UG/KG | U      |
|            | 36-005 | 36-3024 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3023 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3022 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3021 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3020 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3019 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3018 | 0 | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | υ      |
| Š.,        | 36-005 | 36-3018 | Ō | 6 | IN        | Trichloropropane[1,2,3-]              | 6   | UG/KG | υ      |
|            | 36-005 | 36-3051 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 5   | UG/KG | Ū      |
|            | 36-005 | 36-3050 | Ő | 6 | IN        | Trimethylbenzene[1 2 4-]              | 6   | UG/KG | ŭ      |
|            | 36-005 | 36-3050 | Ő | 6 | IN        | Trimethylbenzene[1 2 4-]              | 6   | UG/KG | ŭ      |
|            | 30-005 | 36-3030 | ő | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG |        |
|            | 30-005 | 26 2049 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG |        |
|            | 36-005 | 30-3046 | 0 | 0 | IN        | Trimethylbonzono[1,2,4,]              | 6   | UG/KG |        |
|            | 36-005 | 36-3047 | 0 | 0 | IN        | Trimethylbenzene[1,2,4-]              | 8   |       |        |
|            | 36-005 | 36-3046 | 0 | 6 | IN        | Trimetnyibenzene[1,2,4-]              | б   | UG/KG |        |
|            | 36-005 | 36-3045 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3044 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3043 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 5   | UG/KG | U      |
|            | 36-005 | 36-3042 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3042 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 5   | UG/KG | ÛΊ     |
|            | 36-005 | 36-3041 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 55  | UG/KG |        |
|            | 36-005 | 36-3040 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 5   | UG/KG | υ      |
|            | 36-005 | 36-3039 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-1              | 120 | UG/KG |        |
|            | 36-005 | 36-3038 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 70  | UG/KG |        |
|            | 36-005 | 36-3037 | õ | 6 | IN        |                                       | 5   | UG/KG | 11     |
|            | 36-005 | 36-3036 | õ | â | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | ŭ      |
|            | 36.005 | 36 3036 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG |        |
|            | 30-005 | 30-3035 | 0 | 6 | IN        | Trimethylbenzene[1,2,4]               | 6   | UG/KG | U U    |
|            | 36-005 | 36-3034 | 0 | 0 | DN IN     |                                       | 0   | UG/KG |        |
|            | 36-005 | 36-3034 | 0 | 6 | IN        | Trimetnyibenzene[1,2,4-]              | 5   | UG/KG |        |
|            | 36-005 | 36-3026 | 0 | 6 | IN        | Irimethylbenzene[1,2,4-]              | 25  | UG/KG | 0      |
|            | 36-005 | 36-3025 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 5   | UG/KG | U      |
|            | 36-005 | 36-3024 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3023 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3022 | 0 | 6 | 1N        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | U      |
|            | 36-005 | 36-3021 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3020 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | UJ     |
|            | 36-005 | 36-3019 | 0 | 6 | IN        | Trimethylbenzene 1.2.4-1              | 6   | UG/KG | U      |
|            | 36-005 | 36-3018 | 0 | 6 | IN        | Trimethylbenzene[1,2,4-]              | 6   | UG/KG | ū      |
|            | 36-005 | 36.3018 | ň | ă | IN        | Trimethylbenzene[1 2 4-]              | Ä   | UG/KG | л<br>Ц |
|            | 36 005 | 36-3010 | 0 | 6 | INI       | Trimethylbenzene[1,2,5-]              | 5   | UG/KG |        |
|            | 30-005 | 30-3051 | 0 | 0 | IN<br>JAJ | Trimethylbenzene[1,3,3 <sup>-</sup> ] | 5   |       |        |
|            | 36-005 | 36-3050 | U | 6 | IN        | Trimethyldenzene(1,3,5-)              | 6   |       |        |
|            | 36-005 | 36-3050 | 0 | 6 | IN        | I rimethylbenzene[1,3,5-]             | 6   | UG/KG | U      |
|            |        |         |   | - |           |                                       | -   |       |        |

| 36-005 | 36-3048 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | U.J     |
|--------|---------|--------|----------|-------------|-------------------------------------|-------|-------|---------|
| 36-005 | 36-3047 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | 11      |
| 30-005 | 30-3047 | 0      | 6        | 115         | Trimethylbenzene[1,3,52]            | 0     |       | 0       |
| 36-005 | 36-3046 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | b     |       |         |
| 36-005 | 36-3045 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | 01      |
| 36-005 | 36-3044 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | UJ      |
| 36-005 | 36-3043 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 5     | UG/KG | υ       |
| 36-005 | 36-3042 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | UJ      |
| 36-005 | 36-3042 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 5     | UG/KG | UJ      |
| 36-005 | 36-3041 | ñ      | 6        | IN          | Trimethylbenzene[1,3,5]             | 5     | UG/KG | 11      |
| 26 005 | 26 2040 | õ      | é        | INI         | Trimethylbenzene[1,2,5]             | 5     | UG/KG | ŭ       |
| 30-005 | 30-3040 | 0      | 0        | lin         |                                     | 5     | UG/KG | 0       |
| 36-005 | 36-3039 | 0      | 6        | IN          | I rimetnyidenzene[1,3,5-]           | 5     | UG/KG | U       |
| 36-005 | 36-3038 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | U       |
| 36-005 | 36-3037 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 5     | UG/KG | U       |
| 36-005 | 36-3036 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | U       |
| 36-005 | 36-3035 | 0      | 6        | IN          | Trimethylbenzene(1.3.5-)            | 6     | UG/KG | U       |
| 36-005 | 36-3034 | Ō      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | ū       |
| 36.005 | 36-3034 | Ő      | ě        | IN          | Trimethylbenzene[1,3,5]             | 5     |       |         |
| 30-005 | 00-0004 | ő      | ç        | IIN<br>INI  | Trimethylbenzene(1,0,0-)            | 5     |       |         |
| 36-005 | 30-3020 | 0      | 0        | IN          | Thmethylbenzene[1,3,5-]             | 25    | UG/KG | 0       |
| 36-005 | 36-3025 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 5     | UG/KG | U       |
| 36-005 | 36-3024 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | U       |
| 36-005 | 36-3023 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | UJ      |
| 36-005 | 36-3022 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | υ       |
| 36-005 | 36-3021 | ō      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | Ū.      |
| 36-005 | 36-3020 | õ      | â        | IN          | Trimethylbenzene[1,3,5-]            | ĥ     |       | 111     |
| 30-005 | 00-3020 | 0      | °        | IIN<br>INI  |                                     | 6     | UC/KG | 00      |
| 36-005 | 36-3019 | 0      | 0        | IIN         | Thmethylbenzene[1,3,5-]             | 6     | UG/KG | 0       |
| 36-005 | 36-3018 | 0      | 6        | IN          | I rimethylbenzene[1,3,5-]           | 6     | UG/KG | U       |
| 36-005 | 36-3018 | 0      | 6        | IN          | Trimethylbenzene[1,3,5-]            | 6     | UG/KG | U       |
| 36-005 | 36-3051 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.089 | UG/G  | U       |
| 36-005 | 36-3050 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.091 | UG/G  | U       |
| 36-005 | 36-3050 | 0      | 6        | IN          | Trinitrobenzene[1.3.5-]             | 0.091 | LIG/G | ũ       |
| 26 005 | 26 2040 | õ      | ě        | IN          | Trinitrobenzere(1,3,5)              | 0.089 |       |         |
| 30-005 | 30-3049 | 0      | 0        |             | Trinitobenzene(1,3,5*)              | 0.089 |       |         |
| 36-005 | 36-3048 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.092 | UG/G  | U       |
| 36-005 | 36-3047 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.091 | UG/G  | U       |
| 36-005 | 36-3046 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  | U       |
| 36-005 | 36-3045 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.094 | UG/G  | U       |
| 36-005 | 36-3044 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.091 | UG/G  | U       |
| 36-005 | 36-3043 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  | ŭ       |
| 36-005 | 36-3042 | 0      | Ê        | IN          | Trinitrobenzene[1,2,5-]             | 0.001 | 116/6 | ŭ       |
| 36-005 | 30-3042 | 0      | 0        | IIN IN      | Trinitobenzene[1,3,5-]              | 0.091 | 00/0  | 0       |
| 36-005 | 36-3042 | U      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.091 | UG/G  | U       |
| 36-005 | 36-3041 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  | U       |
| 36-005 | 36-3040 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.091 | UG/G  | U       |
| 36-005 | 36-3039 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  | U       |
| 36-005 | 36-3038 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  | U       |
| 36-005 | 36-3037 | 0      | ĥ        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  |         |
| 26 005 | 26 2026 | õ      | 6        | 15          | Trinitrobonzono[1,2,5,1             | 0.05  |       |         |
| 36-005 | 30-3030 | 0      | 0        | IIN         | Thinkibbenzene[1,3,5-]              | 0.09  | 00/0  | 0       |
| 36-005 | 36-3035 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-j             | 0.092 | UG/G  | U       |
| 36-005 | 36-3034 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  | U       |
| 36-005 | 36-3034 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.09  | UG/G  | U       |
| 36-005 | 36-3026 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.091 | UG/G  | U       |
| 36-005 | 36-3025 | 0      | 6        | IN          | Trinitrobenzenel 1, 3, 5-1          | 0.094 | LIG/G | u       |
| 36-005 | 36-3024 | Ő      | 6        | IN          |                                     | 0.094 | LIG/G | U U     |
| 26.005 | 26 2022 | ő      | 6        | IN          | Trinitrobenzene(1,2,5,)             | 0.094 |       | 0       |
| 30-005 | 30-3023 | 0      | 0        |             | Thinkibenzene[1,3,5-]               | 0.095 | UG/G  | 0       |
| 36-005 | 36-3022 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.095 | UG/G  | U       |
| 36-005 | 36-3021 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.095 | UG/G  | U       |
| 36-005 | 36-3020 | 0.     | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.094 | UG/G  | U       |
| 36-005 | 36-3019 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.094 | UG/G  | υ       |
| 36-005 | 36-3018 | 0      | 6        | IN          | Trinitrobenzene[1,3,5-]             | 0.094 | UG/G  | т.<br>П |
| 36-005 | 36-3018 | õ      | é        | IN          | Tripitrobenzone[1,2,5]              | 0.004 |       |         |
| 30-005 | 00-0010 | 0      | <u> </u> | 111         | Trinitrobenzene[1,3,3-]             | 0.094 | 00/0  | 0       |
| 36-005 | 30-3051 | 0      | D        | IN          | Trintrotoluene[2,4,6-]              | 0.084 | UG/G  | U       |
| 36-005 | 36-3050 | 0      | 6        | IN          | I rinitrotoluene[2,4,6-]            | 0.086 | UG/G  | U       |
| 36-005 | 36-3050 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.086 | UG/G  | U       |
| 36-005 | 36-3049 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.084 | UG/G  | U       |
| 36-005 | 36-3048 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.086 | UG/G  | U       |
| 36-005 | 36-3047 | 0<br>0 | 6        | IN          | Tripitrotoluepe[2 4 6-1             | 0.085 | LIG/G | ũ       |
| 36-005 | 36-2046 | ñ      | ě        | INI         | Trinitrotokuonol2 4 6 1             | 0.000 |       |         |
| 00-000 | 30-3040 | 0      | 0        | lin<br>In t | Trinitotottene(2,4,0-)              | 0.084 |       | U       |
| 36-005 | 36-3045 | U      | 6        | IN          | i rinitrotoiuene[2,4,6-]            | 0.088 | UG/G  | U       |
| 36-005 | 36-3044 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.085 | UG/G  | U       |
| 36-005 | 36-3043 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.084 | UG/G  | U       |
| 36-005 | 36-3042 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.086 | UG/G  | υ       |
| 36-005 | 36-3042 | 0      | 6        | IN          | Trinitrotoluenel2 4.6-1             | 0.086 | UG/G  | ũ       |
| 36-005 | 36-3041 | 0      | 6        | IN          | Tripitrotoluene <sup>12</sup> 4 6-1 | 0.000 |       |         |
| 26.005 | 26 2040 | č      | 6        | 1.1         | Trinitrotoluono(2,4,0"]             | 0.004 |       |         |
| 30-005 | 30-3040 | 0      | 0        | IN          | Trinitrotoluene[2,4,6-]             | 0.086 | UG/G  | U       |
| 36-005 | 36-3039 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.084 | UG/G  | U       |
| 36-005 | 36-3038 | 0      | 6        | IN          | Trinitrotoluene[2,4,6-]             | 0.085 | UG/G  | U       |

|                                              | 26.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26 2027                                                                                                                                                                      | 0                                                             | ~                                                                                           | INI                              | Trinitratelyana IO 4 0 1                                                                                                                                                                                                                                                                                                         | 0.005                                                                                              |                                                                                                                                     | 11             |  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------|--|
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3037                                                                                                                                                                      | 0                                                             | 0                                                                                           | IIN                              | Thintoloidene(2,4,6-)                                                                                                                                                                                                                                                                                                            | 0.085                                                                                              | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3036                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluene[2,4,6-]                                                                                                                                                                                                                                                                                                          | 0.085                                                                                              | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3035                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluonol2 4 6-1                                                                                                                                                                                                                                                                                                          | 0.087                                                                                              | LIG/G                                                                                                                               |                |  |
| 3.                                           | 00 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0000                                                                                                                                                                      | U                                                             | 0                                                                                           |                                  | Think otoldene[2,4,6-j                                                                                                                                                                                                                                                                                                           | 0.087                                                                                              | 00/G                                                                                                                                | 0              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3034                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluene[2,4,6-]                                                                                                                                                                                                                                                                                                          | 0.085                                                                                              | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3034                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluenel2 4 6-1                                                                                                                                                                                                                                                                                                          | 0.085                                                                                              | LIG/G                                                                                                                               | 11             |  |
|                                              | 00 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0000                                                                                                                                                                      |                                                               | 0                                                                                           |                                  |                                                                                                                                                                                                                                                                                                                                  | 0.000                                                                                              | 00,0                                                                                                                                | 0              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3026                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | l rinitrotoluene[2,4,6-]                                                                                                                                                                                                                                                                                                         | 0.085                                                                                              | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3025                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluenei2 4 6-1                                                                                                                                                                                                                                                                                                          | 0.079                                                                                              | UG/G                                                                                                                                | LI LI          |  |
|                                              | 26.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 06 0004                                                                                                                                                                      | ~                                                             |                                                                                             | IN I                             | Trinibately (0.4.0.)                                                                                                                                                                                                                                                                                                             | 0.070                                                                                              |                                                                                                                                     | , i            |  |
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3024                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | i rinitrotoluene[2,4,6-j                                                                                                                                                                                                                                                                                                         | 0.08                                                                                               | UG/G                                                                                                                                | 0              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3023                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluenel2.4.6-1                                                                                                                                                                                                                                                                                                          | 0.08                                                                                               | UG/G                                                                                                                                | υ              |  |
|                                              | 26.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26 2022                                                                                                                                                                      | 0                                                             | 6                                                                                           | INI                              | Tripitrotokupne[0,4,6,1                                                                                                                                                                                                                                                                                                          | 0.09                                                                                               |                                                                                                                                     |                |  |
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3022                                                                                                                                                                      | 0                                                             | D                                                                                           | IN                               | i rinitrotoluene[2,4,6-]                                                                                                                                                                                                                                                                                                         | 0.08                                                                                               | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3021                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluene[2,4,6-]                                                                                                                                                                                                                                                                                                          | 0.08                                                                                               | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3020                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluenel2.4.6.1                                                                                                                                                                                                                                                                                                          | 0.08                                                                                               | LIG/G                                                                                                                               | EL.            |  |
|                                              | 00-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00-0020                                                                                                                                                                      | 0                                                             | 0                                                                                           | lin lin                          | Think olouene(2,4,0-)                                                                                                                                                                                                                                                                                                            | 0.08                                                                                               | 00/0                                                                                                                                | 0              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3019                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluene[2,4,6-]                                                                                                                                                                                                                                                                                                          | 0.08                                                                                               | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3018                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Trinitrotoluenel2 4 6-1                                                                                                                                                                                                                                                                                                          | 0.08                                                                                               | LIG/G                                                                                                                               | - 11           |  |
|                                              | 00 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0010                                                                                                                                                                      | ő                                                             | 0                                                                                           |                                  |                                                                                                                                                                                                                                                                                                                                  | 0.00                                                                                               | UG/G                                                                                                                                | 0              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3018                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | I rinitrotoluene[2,4,6-]                                                                                                                                                                                                                                                                                                         | 0.08                                                                                               | UG/G                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NA                                                                                                                                                                           |                                                               |                                                                                             |                                  | Vanadium                                                                                                                                                                                                                                                                                                                         | 4.4                                                                                                | MG/KG                                                                                                                               | UJ             |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26-2051                                                                                                                                                                      | 0                                                             | 6                                                                                           | INI                              | Vonedium                                                                                                                                                                                                                                                                                                                         | <b>F F</b>                                                                                         | MONO                                                                                                                                | 11             |  |
|                                              | 30-003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00-0001                                                                                                                                                                      | 0                                                             | 0                                                                                           | 11.1                             | Valiauluiti                                                                                                                                                                                                                                                                                                                      | 5.5                                                                                                | WG/KG                                                                                                                               | 0              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3050                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 18.2                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3050                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 19.4                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 00 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0000                                                                                                                                                                      |                                                               | 0                                                                                           |                                  | Valiacium                                                                                                                                                                                                                                                                                                                        | 10.4                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3049                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 6.3                                                                                                | MG/KG                                                                                                                               | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3048                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 25.7                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 26 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26 2047                                                                                                                                                                      | Ō                                                             | ē                                                                                           | 18.1                             | Venedium                                                                                                                                                                                                                                                                                                                         | 10.0                                                                                               | Moriko                                                                                                                              |                |  |
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3047                                                                                                                                                                      | 0                                                             | 0                                                                                           | 115                              | vanadium                                                                                                                                                                                                                                                                                                                         | 13.9                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3046                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 8.4                                                                                                | MG/KG                                                                                                                               | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3045                                                                                                                                                                      | Λ                                                             | 6                                                                                           | INI                              | Vanadium                                                                                                                                                                                                                                                                                                                         | 22                                                                                                 | MG/KG                                                                                                                               |                |  |
|                                              | 00-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00-0040                                                                                                                                                                      | 2                                                             |                                                                                             |                                  |                                                                                                                                                                                                                                                                                                                                  | 20                                                                                                 | wid/NG                                                                                                                              |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3044                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 17.4                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3043                                                                                                                                                                      | n                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 76                                                                                                 | MG/KG                                                                                                                               | 11             |  |
|                                              | 00 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 00 10                                                                                                                                                                     |                                                               |                                                                                             |                                  | Vanadiam                                                                                                                                                                                                                                                                                                                         | 7.0                                                                                                | Ma/Ra                                                                                                                               | 0              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3042                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 10                                                                                                 | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3042                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 10.7                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 00 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 00 41                                                                                                                                                                     | -                                                             |                                                                                             |                                  | Manadium                                                                                                                                                                                                                                                                                                                         | 10.7                                                                                               | hourd                                                                                                                               |                |  |
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3041                                                                                                                                                                      | U                                                             | ю                                                                                           | IN                               | vanadium                                                                                                                                                                                                                                                                                                                         | 15.5                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3040                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 10.4                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 26 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26 2020                                                                                                                                                                      | 0                                                             | e e                                                                                         | INF                              | Manadium                                                                                                                                                                                                                                                                                                                         |                                                                                                    | Norico                                                                                                                              |                |  |
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3039                                                                                                                                                                      | 0                                                             | 0                                                                                           | 111                              | vanaulum                                                                                                                                                                                                                                                                                                                         | 9.8                                                                                                | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3038                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 16.2                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3037                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 20.1                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 00.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00-0007                                                                                                                                                                      | 0                                                             | 0                                                                                           |                                  | Vanadium                                                                                                                                                                                                                                                                                                                         | 20.1                                                                                               | wand                                                                                                                                |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3036                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 19.9                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3035                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 23.5                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 00 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0000                                                                                                                                                                      | õ                                                             | č                                                                                           |                                  | Vanadiam                                                                                                                                                                                                                                                                                                                         | 20.5                                                                                               | Marka                                                                                                                               |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3034                                                                                                                                                                      | 0                                                             | ъ                                                                                           | IN                               | vanadium                                                                                                                                                                                                                                                                                                                         | 14.5                                                                                               | MG/KG                                                                                                                               |                |  |
| 2.                                           | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3034                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 15.4                                                                                               | MG/KG                                                                                                                               |                |  |
|                                              | 26 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26 2026                                                                                                                                                                      | ň                                                             | ē                                                                                           | INI                              | Vanadium                                                                                                                                                                                                                                                                                                                         | 4 4 7                                                                                              | NOKO                                                                                                                                |                |  |
| 1. A.    | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3020                                                                                                                                                                      | U                                                             | 0                                                                                           | <b>WN</b>                        | vanadium                                                                                                                                                                                                                                                                                                                         | 14.7                                                                                               | MG/KG                                                                                                                               | -              |  |
| 1. A. C. | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3025                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 7.9                                                                                                | MG/K <b>G</b>                                                                                                                       | UJ 🖒           |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3024                                                                                                                                                                      | ٥                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 12.5                                                                                               | MG/KG                                                                                                                               | 1              |  |
|                                              | 00-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00-0024                                                                                                                                                                      |                                                               | 0                                                                                           |                                  | Variadium                                                                                                                                                                                                                                                                                                                        | 12.5                                                                                               | WG/KG                                                                                                                               | 5              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3023                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 10.5                                                                                               | MG/KG                                                                                                                               | UJ             |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3022                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 93                                                                                                 | MG/KG                                                                                                                               | 114            |  |
|                                              | 00 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0001                                                                                                                                                                      |                                                               | Č                                                                                           | 18.1                             |                                                                                                                                                                                                                                                                                                                                  | 0.0                                                                                                | Mica/Itca                                                                                                                           | 00             |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3021                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 10.9                                                                                               | MG/KG                                                                                                                               | UJ             |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3020                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 9.8                                                                                                | MG/KG                                                                                                                               | U.I            |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26-2010                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 0.1                                                                                                | MONO                                                                                                                                |                |  |
|                                              | 30-003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3013                                                                                                                                                                      | U                                                             | 0                                                                                           | 11.1                             | Variacium                                                                                                                                                                                                                                                                                                                        | 9.1                                                                                                | MG/KG                                                                                                                               | 03             |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3018                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 9.8                                                                                                | MG/KG                                                                                                                               | UJ             |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3018                                                                                                                                                                      | n                                                             | 6                                                                                           | IN                               | Vanadium                                                                                                                                                                                                                                                                                                                         | 85                                                                                                 | MGIKG                                                                                                                               | 111            |  |
|                                              | 00 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00.0010                                                                                                                                                                      |                                                               |                                                                                             |                                  | Valiadium                                                                                                                                                                                                                                                                                                                        | 6.5                                                                                                | wid/NG                                                                                                                              | 05             |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3051                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vinyl Chloride                                                                                                                                                                                                                                                                                                                   | 10                                                                                                 | UG/KG                                                                                                                               | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3050                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vinvl Chloride                                                                                                                                                                                                                                                                                                                   | 11                                                                                                 | UG/KG                                                                                                                               | 11             |  |
|                                              | 36 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26 2050                                                                                                                                                                      | 0                                                             | ~                                                                                           | 18.1                             | Vind Chiede                                                                                                                                                                                                                                                                                                                      |                                                                                                    | LIGHTO                                                                                                                              |                |  |
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3030                                                                                                                                                                      | U                                                             | o                                                                                           | IIN                              | vinyi Chioride                                                                                                                                                                                                                                                                                                                   | 11                                                                                                 | UG/KG                                                                                                                               | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3049                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vinvi Chloride                                                                                                                                                                                                                                                                                                                   | 11                                                                                                 | UG/KG                                                                                                                               | ' U            |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3048                                                                                                                                                                      | 0                                                             | 6                                                                                           | IM                               | Vinyl Chlorida                                                                                                                                                                                                                                                                                                                   | 44                                                                                                 | LIGING                                                                                                                              | -<br>-         |  |
|                                              | 00-000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0040                                                                                                                                                                      | č                                                             | 5                                                                                           |                                  |                                                                                                                                                                                                                                                                                                                                  | F 1                                                                                                | Jana                                                                                                                                | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3047                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vinyl Chloride                                                                                                                                                                                                                                                                                                                   | 12                                                                                                 | UG/KG                                                                                                                               | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3046                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vinvl Chloride                                                                                                                                                                                                                                                                                                                   | 11                                                                                                 | UG/KG                                                                                                                               | П -            |  |
|                                              | 26 005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 26 20 45                                                                                                                                                                     | ,<br>,                                                        | č                                                                                           | 184                              | Visul Oblasid                                                                                                                                                                                                                                                                                                                    |                                                                                                    | LIGHTO                                                                                                                              | <b>U</b> 1     |  |
|                                              | 30-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30-3045                                                                                                                                                                      | U                                                             | o                                                                                           | IN                               | vinyr Chionde                                                                                                                                                                                                                                                                                                                    | 11                                                                                                 | UG/KG                                                                                                                               | U              |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3044                                                                                                                                                                      | 0                                                             | 6                                                                                           | IN                               | Vinyl Chloride                                                                                                                                                                                                                                                                                                                   | · 11                                                                                               | UG/KG                                                                                                                               | U              |  |
|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                              | -                                                             | -                                                                                           | IN                               | Vinyl Chlorida                                                                                                                                                                                                                                                                                                                   | 10                                                                                                 | UCKC                                                                                                                                | -<br>          |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36.2042                                                                                                                                                                      | ň                                                             | 2                                                                                           |                                  |                                                                                                                                                                                                                                                                                                                                  |                                                                                                    |                                                                                                                                     |                |  |
|                                              | 36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3043                                                                                                                                                                      | Ō                                                             | 6                                                                                           | IIN                              | t ingr ernende                                                                                                                                                                                                                                                                                                                   | 10                                                                                                 | Jaka                                                                                                                                | U .            |  |
|                                              | 36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3043<br>36-3042                                                                                                                                                           | 0                                                             | 6<br>:- 6                                                                                   | IN                               | Vinyl Chloride                                                                                                                                                                                                                                                                                                                   | 10                                                                                                 | UG/KG                                                                                                                               | U S            |  |
|                                              | 36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36-3043<br>36-3042<br>36-3042                                                                                                                                                | 0                                                             | 6<br>2 6<br>6                                                                               | IN                               | Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                                                                                                 | 10<br>11<br>10                                                                                     |                                                                                                                                     | U PC           |  |
|                                              | 36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36-3043<br>36-3042<br>36-3042                                                                                                                                                | 0<br>0<br>0                                                   | 6<br>6<br>6                                                                                 | IN<br>IN<br>IN                   | Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                                                                                                 | 10<br>11<br>10                                                                                     | UG/KG<br>UG/KG                                                                                                                      | U 850<br>U     |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 36-3043<br>36-3042<br>36-3042<br>36-3041                                                                                                                                     | 0<br>0<br>0<br>0                                              | 6<br>2 6<br>4 6<br>6                                                                        | IN<br>IN<br>IN                   | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                                                             | 10<br>11<br>10<br>10                                                                               | UG/KG<br>UG/KG<br>UG/KG                                                                                                             | U 85<br>U<br>U |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040                                                                                                                          | 0<br>0<br>0<br>0                                              | 6<br>206<br>6<br>6                                                                          | IN<br>IN<br>IN<br>IN             | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                                                             | 10<br>11<br>10<br>10                                                                               | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                                    |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040                                                                                                                          |                                                               | 6<br>6<br>6<br>6                                                                            | IN<br>IN<br>IN<br>IN             | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                                           | 10<br>11<br>10<br>10<br>10                                                                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                                    |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039                                                                                                               | 0<br>0<br>0<br>0<br>0<br>0                                    | 6<br>6<br>6<br>6<br>6                                                                       | IN<br>IN<br>IN<br>IN<br>IN       | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                         | 10<br>11<br>10<br>10<br>10<br>10                                                                   | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                           |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038                                                                                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0                               | 6<br>6<br>6<br>6<br>6                                                                       | IN<br>IN<br>IN<br>IN<br>IN<br>IN | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                         | 10<br>11<br>10<br>10<br>10<br>10<br>11                                                             | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                           |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>26-3037                                                                                         |                                                               | 6<br>6<br>6<br>6<br>6<br>6                                                                  |                                  | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                                         | 10<br>11<br>10<br>10<br>10<br>10<br>11                                                             | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                           |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037                                                                                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                          | 6<br>6<br>6<br>6<br>6<br>6                                                                  |                                  | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                                       | 10<br>11<br>10<br>10<br>10<br>10<br>11<br>10                                                       | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                  |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036                                                                              |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                              |                                  | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                     | 10<br>11<br>10<br>10<br>10<br>10<br>11<br>10<br>11                                                 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                         |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>26-3035                                                                   |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                              |                                  | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                                                     | 10<br>11<br>10<br>10<br>10<br>10<br>11<br>10<br>11                                                 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                                  |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035                                                                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                              | Z Z Z Z Z Z Z                    | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                 | 10<br>11<br>10<br>10<br>10<br>11<br>11<br>10<br>11                                                 | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034                                                        | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                                         | <u> </u>                         | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                 | 10<br>11<br>10<br>10<br>10<br>10<br>11<br>11<br>11<br>11                                           | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                                |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034                                             |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                               |                                  | Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride<br>Vinyl Chloride                                                                                                                                                 | 10<br>11<br>10<br>10<br>10<br>11<br>11<br>11<br>11<br>11                                           | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                       |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36-3043<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034                                             |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                |                                  | Vinyl Chloride<br>Vinyl Chloride                                                                                                                               | 10<br>11<br>10<br>10<br>10<br>11<br>11<br>11<br>11<br>11<br>10                                     | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                                       |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034<br>36-3026                                             |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6                          |                                  | Vinyl Chloride<br>Vinyl Chloride                                                                                                             | 10<br>11<br>10<br>10<br>10<br>11<br>11<br>11<br>11<br>11<br>10<br>50                               | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                              |                |  |
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|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 36-3043<br>36-3042<br>36-3042<br>36-3040<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034<br>36-3026<br>36-3025                                  |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6           |                                  | Vinyl Chloride<br>Vinyl Chloride                                                                                           | 10<br>11<br>10<br>10<br>10<br>11<br>11<br>11<br>11<br>11<br>10<br>50<br>10                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                     |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3034<br>36-3026<br>36-3025<br>36-3024                       |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6 |                                  | Vinyl Chloride<br>Vinyl Chloride                                                       | 10<br>11<br>10<br>10<br>10<br>11<br>11<br>11<br>11<br>10<br>50<br>10<br>12                         | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                                     |                |  |
|                                              | 36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005<br>36-005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 36-3043<br>36-3042<br>36-3042<br>36-3041<br>36-3039<br>36-3039<br>36-3038<br>36-3037<br>36-3036<br>36-3035<br>36-3034<br>36-3024<br>36-3025<br>36-3024<br>36-3023            |                                                               | 6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6 |                                  | Vinyl Chloride<br>Vinyl Chloride                                                       | 10<br>11<br>10<br>10<br>10<br>11<br>11<br>11<br>11<br>11<br>10<br>50<br>10<br>12<br>11             | UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG<br>UG/KG                   |                |  |
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| 36-005         36-3020         0         6         IN         Vinyl Chloride           36-005         36-3019         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3051         0         6         IN         Xylane (Total)           36-005         36-3050         0         6         IN         Xylane (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11<br>11<br>11<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |
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| 36-005         36-3019         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3051         0         6         IN         Xylane (Total)           36-005         36-3050         0         6         IN         Xylane (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11<br>11<br>11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11          |
| 36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3051         0         6         IN         Vinyl Chloride           36-005         36-3051         0         6         IN         Xylene (Total)           36-005         36-3050         0         6         IN         Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11<br>11<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0           |
| 36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3051         0         6         IN         Vylame (Total)           36-005         36-3050         0         6         IN         Xylane (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11<br>11<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |
| 36-005         36-3018         0         6         IN         Vinyl Chloride           36-005         36-3051         0         6         IN         Xylane (Total)           36-005         36-3050         0         6         IN         Xylane (Total)           36-005         36-3050         0         6         IN         Xylane (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0           |
| 36-005 36-3051 0 6 IN Xylene (Total)<br>36-005 36-3050 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3051 0 6 IN Xylene (Total)<br>36-005 36-3050 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10//0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | . ii        |
| 36-005 36-3050 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | o anta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| 36-005 36-3050 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3049 0 6 IN Yviene (Cota)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U U         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Canta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ũ           |
| 36-005 36-3048 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3047 0 6 IN Xytene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LIG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ounta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U.          |
| 36-005 36-3046 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3045 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LIG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | uorra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ŭ           |
| 36-005 36-3044 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3043 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |
| 36-005 36-3042 0 6 IN Xytene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0J          |
| 36-005 36-3042 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | υ           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 110,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           |
| 36-005 36-3041 0 6 IN Xymene (1otal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 36-005 36-3040 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LICKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -           |
| 36-005 36-3039 0 6 IN Xytene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |
| 36-005 36-3028 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HGKG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |
| 36-005 30-3037 0 6 IN Aylene (Fotal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/NG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0           |
| 36-005 36-3036 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LIG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |
| 36-305 36-3035 U 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3034 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |
| 36-005 36-3034 0 6 IN Ayrene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0           |
| 36-005 36-3026 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LICIKC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/NG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3024 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LIG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11          |
| 36-005 36-3023 0 6 IN Xylene (Fotal)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ð                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3022 0 6 IN Xviene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LIC/KC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11          |
| 36-005 36-3021 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 28 DOE 26 2020 0 6 ibi Yulana (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LIC //C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |
| 36-005 36-3019 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | U           |
| 36-005 36-3019 0 6 IN Xylene (Total)<br>36-005 36-3018 0 6 IN Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6<br>6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UG/KG<br>UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | U           |
| 36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UG/KG<br>UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | U           |
| 36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6<br>6<br><del>6</del>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UG/KG<br>UG/KG<br>UG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | U<br>U      |
| 36-005         36-3020         0         6         IN         Xylene (Total)           36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         NA         Zinc         Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6<br>6<br>6<br>2840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UG/KG<br>UG/KG<br>UG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U<br>U<br>U |
| 36-005         36-3020         0         6         IN         Xylene (Total)           36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         NA         Zinc         Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6<br>6<br>2840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UG/KG<br>UG/KG<br>UG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U<br>U<br>U |
| 36-005     36-3020     0     6     IN     Xylene (Total)       36-005     36-3019     0     6     IN     Xylene (Total)       36-005     36-3018     0     6     IN     Xylene (Total)       36-005     36-3018     0     6     IN     Xylene (Total)       36-005     NA     Zinc       ;36-005     36-3051     0     6     IN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6<br>6<br>2840<br>21.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UG/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | U<br>U<br>U |
| 36-005         36-3020         0         6         IN         Xylene (Total)           36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         NA         Zinc         Zinc           36-005         36-3051         0         6         IN         Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UG/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | U<br>U<br>U |
| 36-005         36-3020         0         6         IN         Xylene (Total)           36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         NA         Zinc         2inc           36-005         36-3051         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6<br>6<br>2840<br>21.3<br>20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UG/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U<br>U<br>U |
| 36-005         36-3020         0         6         IN         Xylene (Total)           36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         NA         Zinc         2           36-005         36-3051         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UG/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U<br>U<br>U |
| 36-005         36-3020         0         6         IN         Xylene (Total)           36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         NA         Zinc         Zinc           36-005         36-3051         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UG/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UUU         |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UUU         |
| 36-005         36-3020         0         6         IN         Xylene (Total)           36-005         36-3019         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         36-3018         0         6         IN         Xylene (Total)           36-005         NA         Zinc         Zinc           36-005         NA         Zinc         Zinc           36-005         36-3050         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc           36-005         36-3050         0         6         IN         Zinc           36-005         36-3049         0         6         IN         Zinc           36-005         36-3048         0         6         IN         Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U&/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UUU         |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | U&/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UUU         |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc <td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9</td> <td>UG/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td> <td>UUU</td>                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UUU         |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc <td>6<br/>6<br/>2840<br/>21.3<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>27<br/>20.9</td> <td>U&amp;/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td> <td>UUU</td>                                                                                                                                                                                                                              | 6<br>6<br>2840<br>21.3<br>20.9<br>19.9<br>27<br>20.9<br>27<br>20.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U&/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UUU         |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Z                                                                                                                                                                                                                                                                                                                                                                              | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | U&/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                          | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5</td><td>U&amp;/KG<br/>UG/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td></td></td<>                                                                                                                                                                 | 6<br>6<br>2840<br>21.3<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U&/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3</td><td>U&amp;/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<>                                                                                                                          | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U&/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                 | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc         36-005       NA       Zinc         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3044       0 <td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2</td> <td>U&amp;/KG<br/>UG/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td> <td>U<br/>U<br/>U</td>                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | U&/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                                 | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>25.2</td><td>U&amp;/KG<br/>UG/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<>                                                                                                     | 6<br>6<br>2840<br>21.3<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>25.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | U&/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                        | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Zinc         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3043       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>23.9</td><td>U&amp;/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<>                                                                                              | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U&/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                        | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Z                                                                                                                                                                                                                                                                                                                                                                              | 6<br>6<br>2840<br>21.3<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br><b>28.9</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | U&/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                                        | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3043       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>23.9<br/>28.9<br/>41 7</td><td>U6/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<>                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U6/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                               | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>23.9<br/>28.9<br/>41.7</td><td>U&amp;/KG<br/>UG/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<>                                                        | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | U&/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                                      | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>23.9<br/>28.9<br/>41.7<br/>33.8</td><td>U&amp;/KG<br/>UG/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<>                           | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | U&/KG<br>UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                    | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Z                                                                                                                                                                                                                                                                                                                                                                              | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>25.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                    | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3042       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>23.9<br/><b>28.9</b><br/>41.7<br/>33.8<br/>32.9</td><td>U&amp;/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<>                  | 6<br>6<br>2840<br>21.3<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br><b>28.9</b><br>41.7<br>33.8<br>32.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | U&/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                                    | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Z                                                                                                                                                                                                                                                                                                                                                                              | 6<br>6<br>2840<br>21.3<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br><b>28.9</b><br>41.7<br>33.8<br>32.9<br>31.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                           |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0 <td< td=""><td>6<br/>6<br/>2840<br/>21.3<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>23.9<br/>28.9<br/>41.7<br/>33.8<br/>32.9<br/>31.7<br/>24.4</td><td>Ué/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td><td>U<br/>U<br/>U</td></td<> | 6<br>6<br>2840<br>21.3<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>24.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ué/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                                           | U<br>U<br>U |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc       Zinc         36-005       NA       Zinc       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005 <td>6<br/>6<br/>2840<br/>21.3<br/>20<br/>20.9<br/>19.9<br/>27<br/>20.9<br/>25.6<br/>30.5<br/>19.3<br/>25.2<br/>23.9<br/>28.9<br/>41.7<br/>33.8<br/>32.9<br/>31.7<br/>34.4</td> <td>UG/KG<br/>UG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG<br/>MG/KG</td> <td></td>       | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                         |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                                | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ue/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                |             |
| 36:005       36:3020       0       6       IN       Xylene (Total)         36:005       36:3019       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       NA       Zinc       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3043       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                                         |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                                | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.8<br>28.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                       |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc       Zinc         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3054       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                                       | U<br>U<br>U |
| 36:005       36:3019       0       6       IN       Xylene (Total)         36:005       36:3019       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       NA       Zinc       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3041       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.6<br>28.2<br>37.4<br>27.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                              |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       NA       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3041       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                                | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>31.7<br>33.8<br>32.9<br>33.7<br>33.7<br>33.7<br>33.7<br>33.7<br>33.7<br>33.7<br>33 | Ué/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                   |             |
| 36:005       36:3020       0       6       IN       Xylene (Total)         36:005       36:3019       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       NA       Zinc         36:005       36:3051       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3054       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3044       0       6       IN       Zinc         36:005       36:3043       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                                | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br><b>28.9</b><br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br><b>28.2</b><br>37.4<br>37.5<br><b>22.7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                                     |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.8<br>28.2<br>37.4<br>37.5<br>22.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ué/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                            |             |
| 36:005       36:3020       0       6       IN       Xylene (Total)         36:005       36:3019       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       NA       Zinc       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3046       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br><b>28.9</b><br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br><b>28.2</b><br>37.4<br>37.5<br><b>22.7</b><br><b>25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                            |             |
| 36-005       36-3020       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>46.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ue/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                                   |             |
| 36:003       36:302:0       0       6       IN       Xylene (Total)         36:005       36:3019       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       NA       Zinc       Zinc         36:005       NA       Zinc       Zinc         36:005       36:3051       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3043       0       6       IN       Zinc         36:005       36:3043       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc         36:005                                                                                                                                                                                                                                                                                                                                                                                                  | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ue/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                          |             |
| 36:003       36:3020       0       6       IN       Xylene (Total)         36:005       36:3019       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       NA       Zinc       Zinc         36:005       36:3051       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3045       0       6       IN       Zinc         36:005       36:3044       0       6       IN       Zinc         36:005       36:3043       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc         36:005       36:3041       0       6       IN       Zinc                                                                                                                                                                                                                                                                                                                                                                                     | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ue/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                                 |             |
| 36:003       36:3020       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       36:3018       0       6       IN       Xylene (Total)         36:005       NA       Zinc       Zinc         36:005       NA       Zinc       Zinc         36:005       36:3051       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3050       0       6       IN       Zinc         36:005       36:3048       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3047       0       6       IN       Zinc         36:005       36:3043       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc         36:005       36:3042       0       6       IN       Zinc         36:005       <                                                                                                                                                                                                                                                                                                                                                                                           | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                   |             |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3040       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3044       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3041       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.6<br>28.2<br>37.4<br>37.5<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ue/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                   |             |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3041       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18<br>38.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                        |             |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3011       0       6       IN       Zinc         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3040       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br><b>28.9</b><br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br><b>28.2</b><br>37.4<br>37.5<br><b>28.7</b><br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18<br>38.2<br>40.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                               |             |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3044       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18<br>38.2<br>40.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ué/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                              |             |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3043       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18<br>38.2<br>40.4<br>25.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                                                        |             |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3045       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.8<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18<br>38.2<br>40.4<br>25.2<br>24 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ué/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG |             |
| 36-005       36-3019       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3018       0       6       IN       Xylene (Total)         36-005       36-3051       0       6       IN       Zinc         36-005       36-3050       0       6       IN       Zinc         36-005       36-3049       0       6       IN       Zinc         36-005       36-3048       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3046       0       6       IN       Zinc         36-005       36-3047       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6       IN       Zinc         36-005       36-3042       0       6                                                                                                                                                                                                                                                                                                                                                                                      | 6<br>6<br>2840<br>21.3<br>20<br>20.9<br>19.9<br>27<br>20.9<br>25.6<br>30.5<br>19.3<br>25.2<br>23.9<br>28.9<br>41.7<br>33.8<br>32.9<br>31.7<br>34.4<br>28.2<br>37.4<br>37.5<br>22.7<br>25<br>40.8<br>39.4<br>18<br>38.2<br>40.4<br>25.2<br>34.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UG/KG<br>UG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG<br>MG/KG                                                                                                                                                                                                                                                    |             |