DEPARTMENT OF THE ARMY
U.S. ARMY GARRISON WHITE SANDS
100 Headquarters Avenue
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-5000

ENTERED

REPLY TO
ATTENTION OF

JUL 26 2012

AUG 2012

Directorate of Public Works

Mr. John Kieling
New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

SUBJECT: Corrective Action Complete Proposals for SWMUs 107, 121 through 123, 156 and 163

Dear Mr. Kieling:

Enclosed for your review is the document submittal titled: *Corrective Action Complete Proposals SWMUs 107, 121 through 123, 156, and 163. SWMU 107 (WSMR-35) Temperature Test Facility Evaporation Tank; SWMUs 121, 122 and 123 (WSMR-67) Asphalt Tanks at Stallion Range; SWMU 156 (WSMR-57) Pesticide Storage Shed at Main Post Golf Course; and SWMU 163 (WSMR-72)Commissary Landfill Trench.*

White Sands Missile Range requests a Class III permit modification to change the status of six Solid Waste Management Units from Corrective Action Required to Corrective Action Complete without Controls in the White Sands Missile Range RCRA Part B Permit HSWA Module, Identification No. NM2750211235.

Also enclosed are the public notice proofs of publication made pertaining to this petition. The 60-day comment period began on July 15, 2012 and ends on September 12, 2012. A public meeting is scheduled for 6:30 pm on August 1, 2012 at the Thomas Branigan Memorial Library in Las Cruces, NM.

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Should you have any questions regarding this matter, please contact Mr. Benito Avalos of our Environmental Compliance Branch at (575) 678-2225.

I am forwarding this letter with enclosures (1 print copy w/CD) to Mr. Dave Cobrain, NMED-HWB; Mr. Paul Torcoletti, EPA Region 6; and Mr. Sudhakar Matlapudi, Shaw, Inc.

Sincerely,

Thomas A. Ladd

Thomas A. Ladd
Director, Public Works

Enclosures

FINAL

CORRECTIVE ACTION COMPLETE PROPOSALS
SWMUS 107, 121 THROUGH 123, 156, AND 163

SWMU 107 (WSMR-35) the Temperature Test Facility Evaporation Tank;
SWMUs 121, 122, and 123 (WSMR-67) the Asphalt Tanks at Stallion Range;
SWMU 156 (WSMR-57) the Pesticide Storage Shed at Main Post Golf Course; and
SWMU 163 (WSMR-72) the Commissary Landfill Trench

June 2012

White Sands Missile Range, New Mexico
EPA Identification Number NM2750211235

Shaw Environmental, Inc.
1401 Enclave Parkway, Suite 250
Houston, Texas 77077

REPORT DOCUMENTATION PAGE

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Corrective Action Complete Proposals
SWMUS 107, 121 through 123, 156, and 163
SWMU 107 (WSMR-35) the Temperature Test Facility Evaporation Tank;
SWMUs 121, 122, and 123 (WSMR-67) the Asphalt Tanks at Stallion Range;
SWMU 156 (WSMR-57) Pesticide Storage Shed at Main Golf Course; and
SWMU 163 (WSMR-72) the Commissary Landfill Trench

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6. AUTHOR(S)

Dezbah Tso, Shaw Environmental, Inc.
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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

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8. PERFORMING ORGANIZATION REPORT NUMBER
ACA08-023

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)

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ATTN: IMWE-WSM-PW-E-EC (Benito Avalos)

10. SPONSOR/MONITOR'S ACRONYM(S)

11. SPONSOR/MONITOR'S REPORT NUMBER(S)

12. DISTRIBUTION/AVAILABILITY STATEMENT

13. SUPPLEMENTARY NOTES

14. ABSTRACT

The United States Army and White Sands Missile Range requests that the New Mexico Environment Department approve a Class III Permit modification to the WSMR RCRA Permit to change the status of four Solid Waste Management Units (SWMUs) to Corrective Action Complete Without Controls from Corrective Action Required. The four SWMUs include:

- SWMU 107 (WSMR-35) the Temperature Test Facility Evaporation Tank
- SWMUs 121, 122, and 123 (WSMR-67) the Asphalt Tanks at Stallion Range
- SWMU 156 (WSMR-57) Pesticide Storage Shed at Main Golf Course
- SWMU 163 (WSMR-72) the Commissary Landfill Trench

Previous characterization and/or remediation of the sites indicates that contaminant concentrations are below risk-based screening action levels designed to be protective of human health.

15. SUBJECT TERMS

Corrective Action Complete (CAC) without controls, SWMU 107 (WSMR-35), SWMUs 121, 122, and 123 (WSMR-67), SWMU 156 (WSMR-57) , SWMU 163 (WSMR-72)

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			Sudhakar "Matt" Matlapudi
Unclassified	Unclassified	Unclassified	None	109	19b. TELEPHONE NUMBER *(Include area code)* 281-531-3014

FINAL

CORRECTIVE ACTION COMPLETE PROPOSALS
SWMUS 107, 121 – 123, 156, AND 163

SWMU 107 (WSMR-35) the Temperature Test Facility Evaporation Tank; SWMUs 121, 122, and 123 (WSMR-67) the Asphalt Tanks at Stallion Range; SWMU 156 (WSMR-57) the Pesticide Storage Shed at Main Post Golf Course; and SWMU 163 (WSMR-72) the Commissary Landfill Trench

Prepared for:

U.S. Army
White Sands Missile Range
Directorate of Public Works – Environmental Division
White Sands Missile Range, NM 88002-5048

June 2012

Prepared by:

Shaw Environmental, Inc.
1401 Enclave Parkway, Suite 250
Houston, Texas 77077

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Acronyms and Abbreviations

°F	degree(s) Fahrenheit
amsl	above mean sea level
AOC	Area of concern
ASI	Advanced Sciences Inc.
AUA	annual unit audit
bgs	below ground surface
BHC	benzene hexachloride
CAC	Corrective Action Complete
CFR	Code of Federal Regulations
COC	constituent of concern
DDD	(1,1-bis(chlorophenyl)-2,2-dichloroethane)
DDE	(1,1-bis(chlorophenyl)-2,2-dichloroethene)
DDT	(1,1-bis(chlorophenyl)-2,2,2-trichloroethane)
Dow	Dow Environmental, Inc.
EPA	U.S. Environmental Protection Agency
HRMB	Hazardous and Radioactive Materials Bureau
HSWA	Hazardous and Solid Waste Amendments
IT Corporation	International Technology Corporation
MEVATEC	MEVATEC Corporation
mg/kg	milligram(s) per kilogram
mg/L	milligram(s) per liter
NFA	No Further Action
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
PCB	polychlorinated biphenyl
PCE	tetrachloroethylene
ppm	parts per million
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
Rinchem	Rinchem Company, Inc.
RSL	regional screening level
SLERA	Screening Level Ecological Risk Assessment
SSL	soil screening level
SVE	soil vapor extraction
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
Sverdrup	Sverdrup Environmental Corporation
TCA	trichloroethane
TCE	trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TPH	total petroleum hydrocarbons
TTF	Temperature Test Facility

VCA	voluntary corrective action
VOC	volatile organic compound
VSI	Visual Site Inspection
WSMR	White Sands Missile Range
WTS	White Sands Technical Services

1.0 Introduction

The United States Army and White Sands Missile Range (WSMR) (Permittee) is requesting from the New Mexico Environment Department (NMED) a change in status for six Solid Waste Management Units (SWMUs) to Corrective Action Complete (CAC) Without Controls in accordance the New Mexico Hazardous Waste Act (Section 74-4-1 *et seq*., New Mexico Statutes Annotated 1978, as amended, 1992), Title 40, Code of Federal Regulations (CFR), Part 270.42, and 20.4.1 New Mexico Administrative Code (NMAC).

WSMR was issued Hazardous Waste Permit No. NM2750211235 by the U.S. Environmental Protection Agency (EPA) on October 24, 1989 under the authority of Resource Conservation and Recovery Act (RCRA), Part B. Before January 1, 1996, the EPA was the Administrative Authority for the permit; on January 1, 1996, the NMED became the Administrative Authority. The six SWMUs included in this proposal are listed in the WSMR RCRA Permit (NMED, 2009) and are shown in Figure 1-1. The six SWMUs include the following:

- SWMU 107 (WSMR-35) the Temperature Test Facility Evaporation Tank
- SWMUs 121, 122, and 123 (WSMR-67) the Asphalt Tanks at Stallion Range
- SWMU 156 (WSMR-57) the Pesticide Storage Shed at the Main Post Golf Course
- SWMU 163 (WSMR-72) the Commissary Landfill Trench

The Permittee requests a Class III permit modification to the WSMR RCRA Permit to adjust the content of two corrective action tables contained in Permit Appendix 4 (NMED, 2009) that list the status of SWMUs and Areas of Concern (AOCs) at the facility as follows:

- Table 4-1 – SWMUs and AOCs Requiring Corrective Action
- Table 4-3 – SWMUs and AOCs Corrective Action Complete Without Controls

If the Class III permit modification proposal is approved, these six SWMUs would transfer from Table 4-1 to Table 4-3 of the WSMR RCRA Permit (NMED, 2009). Previous characterization and/or remediation of the sites indicates that contaminant concentrations are below risk-based screening action levels designed to be protective of human health.

This document complies with the 40 CFR 270.42 regulation, which stipulates that a specific Class III permit modification request be made by WSMR and that supporting documentation be provided with the request. This proposal is submitted in partial fulfillment of requirements for permit modification promulgated in 40 CFR 270.42 and 20.4.1 NMAC. In addition to submitting the petition, in compliance with 40 CFR 270.42 (c) WSMR will

- Provide public notice within 7 days of submitting the petition and provide evidence of publication.
- Conduct a public meeting inviting stakeholder involvement in the CAC decisions no earlier than 15 days after the public notice is published and no later than 15 days before the close of the 60-day comment period.
- Place copy of the permit modification request and supporting documents in a publicly accessible location in the vicinity of WSMR.
- Provide the public at least 60-days to comment on the permit modification request, which will begin the day the public notice is published.

As required by the WSMR RCRA Permit (NMED, 2009), analytical results have been compared with the NMED residential soil screening levels (SSLs) (NMED, 2012), and the EPA Regions 3, 6, and 9 Regional Screening Levels (RSLs) have been used for constituents that do not have established NMED SSLs (EPA, 2012). The following sections describe the location, history, and land use conditions for each SWMU. A summary of relevant information from previous investigations and a basis for CAC determination for the six SWMUs are also presented in Sections 2, 3, 4, and 5.

1.1 Facility Description

WSMR is a U.S. Army Development Test Command Installation established in 1945. WSMR is the largest land area military installation in the United States, encompassing approximately 3,200 square miles of land in Doña Ana, Socorro, Lincoln, Otero, and Sierra Counties in south-central New Mexico. The installation is approximately 99 miles long (north to south) and 25 to 40 miles wide (east to west) (White Sands Technical Services [WTS], 2006). WSMR was established on July 9, 1945, as White Sands Proving Ground (the name was changed in 1958) to be the nation's testing range for the newly developed missile weapons. The New Mexico desert was selected as the testing range. The sparse population, almost year-round clear weather, and excellent visibility affording relatively easy recovery of spent missiles contributed to establishing the base in this location.

WSMR is located in the Tularosa Basin of south-central New Mexico, (Figure 1-1), and portions of WSMR extend west into the Jornada del Muerto Basin. The headquarters (Main Post) area of WSMR is located at the southwestern corner of the installation, approximately 27 miles east-northeast of Las Cruces, New Mexico, and 45 miles north of El Paso, Texas. The main entrance to WSMR is on U.S. Highway 70, east from Interstate 25 at Exit 6.

1.2 Environmental Setting

1.2.1 Geographic Setting

Topographic relief across WSMR is dominated by two prominent geomorphic features, the San Andres Mountains and the Tularosa Basin. The average elevation of the Tularosa Basin is 4,000 feet above mean sea level (amsl). The San Andres range trends north-south along the western side of the missile range and varies in elevation from 5,700 feet amsl at San Augustin Pass, where Highway 70 crosses the mountains, to more than 9,000 feet amsl at Salinas Peak, the highest point on WSMR.

1.2.2 Climate

Average annual precipitation measured at gauging stations in the Tularosa Basin, southeast of the WSMR Main Post, is 10.8 inches per year. About 50 percent of the annual precipitation falls in the months of July through September in southern New Mexico. The average high temperature in the summer is about 92 degrees Fahrenheit (°F) with the lows reaching 65°F. During the winter months, the average high is about 57°F, and the average low is about 36°F. Average annual humidity readings are only 37 percent. Wind is a climatic factor at WSMR from February through May, as westerly winds can reach about 40 miles per hour.

1.2.3 Geology and Soil Types

1.2.3.1 Regional Geology

WSMR lies within the Mexican Highland Section of the Basin and Range Province. This province is characterized by a series of tilted fault blocks forming longitudinal, asymmetric ridges, or mountains, and broad intervening basins. The geology of WSMR consists predominantly of the Tularosa Basin and surrounding mountain ranges. The San Andres, San Augustin, and Oscura Mountains border the Tularosa Basin on the west, and the Sacramento Mountains form the eastern border. A narrow region of north-south–trending, large-displacement normal faulting separates the mountains from the basin, thus resulting in the change in relief across the missile range (Figure 1-1). The majority of WSMR property, including most test facilities, is located within the Tularosa Basin (WTS, 2006).

The Tularosa Basin contains thick sequences of Tertiary- and Quaternary-age alluvial and bolson fill deposits. These sediments, more than 5,000 feet in thickness in some areas, consist mainly of silt, sand, gypsum, and clay weathered from the surrounding mountain ranges. The average elevation of the basin floor is 4,000 feet amsl, and surface features consist of flat sandy areas, sand dunes, basalt flows, and playas (dry lake beds) (Figures 1-2 and 1-3; WTS, 2006).

The nature of the bolson-fill deposits varies both laterally and vertically throughout the Tularosa Basin. Coarse-grained, poorly-sorted sediments deposited near mountain fronts grade into finer-grained, well-sorted sediments toward the center of the basin (Kelly and Hearne, 1976).

Sediments farther from the mountain fronts also contain a greater percentage of clay and gypsum. Vertically, the sediments are reported to become finer-grained and more consolidated until reaching a laterally continuous clay unit about 1,000 feet below ground surface (bgs) (Kelly and Hearne, 1976).

In general, the stratigraphy is represented by unconsolidated to partially consolidated, fine- to medium-grained sand with subordinate amounts of clay. Caliche is present as discrete layers and nodules throughout the stratigraphic section. Although no faults within the basin fill are mapped within the immediate area, Quaternary faulting is known to exist within the region. These faults are reported to occur within the unconsolidated bolson sediments, trend north to south, and are most common near the mountain fronts.

1.2.4 Hydrogeology

1.2.4.1 Regional Hydrogeology

Surface hydrogeology at WSMR is characterized by low precipitation, high evapotranspiration rates, and high soil infiltration. During the summer season, when thunderstorm activity is most common, playas within the basin may contain standing water. The arroyos that drain the surrounding mountain ranges usually contain water only following heavy precipitation events. The Tularosa Basin is a closed basin with no surface water drainage outside of WSMR (WTS, 2006).

The WSMR Main Post obtains its potable water supply from an aquifer located in the upper bolson deposits. The majority of groundwater recharge to this aquifer occurs through the coarse, unconsolidated Tertiary/Quaternary alluvial fan deposits and arroyos along the eastern flank of the Organ, San Augustin, and San Andres Mountains. To the east, groundwater becomes more mineralized, primarily with sulfate and chloride. Groundwater flow direction is generally toward the center of the Tularosa Basin.

Recharge to the regional aquifer is from precipitation falling on the mountain ranges and alluvial fans, which border the bolson on the west (WTS, 2006). This precipitation infiltrates the unconsolidated, relatively coarse deposits of the alluvial fans, and the resultant groundwater flows toward the center of the Tularosa Basin, generally to the east-southeast. To the east, groundwater becomes more mineralized, primarily with sulfate and chloride, most likely due to the slow lateral migration rate of groundwater from recharge to discharge areas in the presence of readily soluble minerals in the bolson sediments. However, groundwater flow direction within the western Tularosa Basin region is presumed to discharge to the south as underflow into the contiguous, northern Hueco Basin of western Texas. No surface expressions of groundwater discharge have been reported within the western Tularosa Basin (WTS, 2006).

1.3 Land Use

1.3.1 Current Land Use

WSMR is withdrawn public domain land controlled by the U.S. Department of Defense. For safety and security reasons, access to WSMR is restricted to authorized military and civilian personnel. Residential areas are limited to concentrated tracts at the Main Post and several uprange command and control centers. The land on the missile range is predominantly used to stage tests of aerial weapons systems. Although much of the weapons testing occurs in the airspace above WSMR, designated support, launch, and impact areas have been established.

The six SWMUs discussed in this proposal (SWMU 107, SWMUs 121, 122, and 123, SWMU 156, and SWMU 163) are located within the facility boundary, which is an industrial setting where public access is restricted by fences and military police.

1.3.2 Future Land Use

The U.S. Department of Defense will continue its primary mission at WSMR for the foreseeable future. Public access to the approximately 3,200 square miles of land comprising the missile range will continue to be restricted.

SWMU 107 (WSMR-35), SWMUs 121, 122, and123 (WSMR-67), SWMU 156 (WSMR-57), and SWMU 163 (WSMR-72) will remain within the facility boundary, an industrial setting with public access restricted by fences and military police.

1.4 Scope

This document complies with the 40 CFR 270.42 regulation, which stipulates that a specific Class III permit modification request be made by WSMR and that supporting documentation be provided with the request. This proposal is submitted in partial fulfillment of requirements for permit modification promulgated in 40 CFR 270.42 and 20.4.1 NMAC. In addition to submitting the petition, WSMR will provide public notice within 7 days of its submittal and conduct a public meeting inviting stakeholder involvement in the CAC decisions.

As required by Appendix 3 of the WSMR RCRA Permit (NMED, 2009), analytical results have been compared with the NMED residential SSLs (NMED, 2012). The EPA RSLs have been used for constituents that do not have established NMED SSLs (EPA, 2012).

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2.0 SWMU 107 (WSMR-35) Temperature Test Facility Evaporation Tank

SWMU 107 (WSMR-35), the Temperature Test Facility (TTF) Evaporation Tank, is a unit at the WSMR TTF. Several hazardous waste management units and SWMUs are located at the TTF; these include:

- SWMU 104 (WSMR-34) Temperature Test Facility
- SWMU 105 New Evaporation Tank at TTF
- SWMU 106 Discharge Pipe at TTF
- SWMU 108 (WSMR-41) Vapor Extraction Well at TTF
- SWMU 109 Drum Storage Area (Splash Pan) at TTF
- SWMU 110 Methylene Chloride Catchment System at TTF
- SWMU 111 Methylene Chloride Separation System at TTF
- SWMU 112 Methylene Chloride Separation System at TTF
- SWMU 113 Salt Water Evaporation Tanks at TTF

SWMU 104 was an evaporation pond, and SWMU 105 consisted of an approximately 220,000-gallon evaporation tank. SWMUs 104, 105, and 106 are listed as hazardous waste management units in the RCRA Permit (NMED, 2009). SWMUs 104 and 105 have completed the closure process and SWMU 106 is listed as requiring closure. WSMR also has a post-closure care permit for SWMU 104 (BAE Systems, 2003). SWMUs 108 through 113 are listed in the RCRA Permit as requiring corrective action (NMED, 2009). SWMU 108 (WSMR-41) is currently completing the clean closure process. On January 21, 2011, WSMR submitted a CAC petition for SWMU 108 (WSMR-41) and is currently under review by NMED. SWMU 107, the evaporation tank, was clean-closed and removed in 1990 (Rinchem Company, Inc. [Rinchem], 1990; Appendix A-1). Rinsate samples collected during this operation were found to be nonhazardous (Section 3.4, paragraph 1, MEVATEC Corporation [MEVATEC], 2000a).

2.1 SWMU 107 Description and Operational History

2.1.1 Site Description

The TTF is located 1.5 miles east of the Main Post on Nike Avenue (Figure 2-1). SWMU 107 (WSMR-35) was an evaporation tank that was installed within SWMU 104, the former evaporation pond (Figure 2-2). The evaporation tank had a capacity of 25,000 gallons and was installed as an interim measure to store any overflow from the TTF (Kearney, 1988). SWMU 104 was remediated and now is covered with an engineered cap (Figure 2-2). SWMU 107 (WSMR-35), the evaporation tank, is no longer present at the site (Section 1, paragraph 6, Mevatec, 2000a).

2.1.2 Operational History

The TTF, completed in early 1984, was designed to simulate extreme weather conditions by inducing a wide range of temperature and climatic variations. The completed facility consisted of a main test building, several underground storage tanks with ancillary piping, and a surface evaporation pond (Section 1, paragraph 3, MEVATEC, 2000a). Originally, methylene chloride was used to cool the test chamber and was recycled via the underground storage tanks. In 1983, methylene chloride was flushed from the TTF to the evaporation pond (SWMU 104) due to leaks within the system. The methylene chloride subsequently eroded the polyvinyl chloride liner in the evaporation pond and leaked into the soil beneath it.

In response to the release, WSMR removed the polyvinyl chloride liner and replaced the liner with an impermeable RCRA cap, covering the soil contamination beneath the evaporation pond and the surrounding area (Section 1, paragraph 5, MEVATEC, 2000a). Standing liquid in the pond was collected, placed into drums, and transferred to the Hazardous Waste Storage Facility. The contaminated soil beneath the evaporation pond (SWMU 104) was not excavated. Between 1984 and 1986, the 25,000-gallon tank (SWMU 107) was installed as an interim measure to store any overflow of methylene chloride from the TTF. SWMU 107 consisted of a closed, steel, cylindrical tank horizontally mounted on a concrete pad inside the former evaporation pond (SWMU 104). In 1990, an impermeable, engineered cap was installed that covered the soil contamination beneath the evaporation pond and in the surrounding area. Before installing the cap at the former evaporation pond (SWMU 104), the 25,000-gallon tank (SWMU 107) was decontaminated, dismantled, and removed (Appendix A-1; Rinchem, 1990). This former evaporation pond (SWMU 104) is a hazardous waste management unit described as having completed closure in the WSMR RCRA Permit (NMED, 2009). The vadose zone beneath the evaporation pond was successfully treated using a soil vapor extraction (SVE) system as part of SWMU 108 to address contamination from the historic methylene chloride spill (MEVATEC, 2000a).

2.2 SWMU 107 Previous Site Investigations

The TTF Evaporation Tank, identified during the RCRA Facility Assessment (RFA) (Kearney, 1988), was decontaminated and dismantled by Rinchem (Rinchem, 1990; MEVATEC, 2000a).

2.2.1 RCRA Facility Assessment

The RFA consisted of a Preliminary Review/Visual Site Inspection (VSI), which involved a search of facility records of hazardous waste-related activity at and a visual inspection of SWMU 107 (WSMR-35). The RFA report was issued in August 1988 (Kearney, 1988). The August 1988 RFA Report meets the requirement of the Release Assessment Report for the TTF Evaporation Tank (SWMU-107).

2.2.1.1 Non-sampling Data Collection

The records search found no documented evidence of a release or previous sampling activities at SWMU 107 (WSMR-35). No evidence of a release was observed during the VSI (Kearney, 1988).

2.2.1.2 Sampling Data Collection

No environmental samples were collected during the RFA. The Preliminary Review/VSI generated no analytical data (Kearney, 1988).

2.2.1.3 Results and Conclusions

The RFA reported that the potential for the release of contaminants to soil, groundwater, surface water, and air, as well as production of subsurface gas from SWMU 107 (WSMR-35), was "low" (Section 5.65.2, page 5-103, Kearney, 1988).

2.2.2 Closure Activities

WSMR elected to perform a voluntary corrective action (VCA) at SWMU 107 (WSMR-35). Tank decontamination and closure were selected as the remedy (Section 3.3, MEVATEC, 2000a). The decision was based on several factors. An engineered cap was to be constructed over the former evaporation pond (SWMU 104). In order to construct the cap, removal of SWMU 107 (WSMR-35) was necessary. Removing SWMU 107 (WSMR-35) would eliminate the potential for a release from the tank (Section 3.3, MEVATEC, 2000a). Tank decontamination and removal were performed by Rinchem in May 1990. The tank was dismantled and rolled onto 10-milliliter plastic sheeting laid out over the entire work surface area (Rinchem, 1990; Appendix A-1). Sludge in the tank was shoveled and pumped into steel drums using spark-proof shovels and a heavy-duty sludge pump. The tank interior was decontaminated using hot steam and water with low sudsy, biodegradable soap (Appendix A-1; Rinchem 1990). Rinchem personnel washed and rinsed the tank in four successive cycles. After removal, the tank was disposed of (Appendix A-1; Rinchem, 1990).

2.2.2.1 Non-sampling Data

The field notes (Appendix A-1) indicated that no cracks or deficiencies were visually observed in the tank wall (Rinchem, 1990).

2.2.2.2 Sampling Data

Waste Characterization

Rinsate samples were collected to evaluate the effectiveness of the tank-cleaning process and analyzed for methylene chloride, tetrachloroethylene (PCE), toluene, 1,1,1-trichloroethane (TCA), 1,1,2-TCA, and trichloroethylene (TCE) (MEVATEC, 2000a) for waste management purposes. These samples are discussed in Section 2.2.2.3. The report by Rinchem is provided in Appendix A-1.

Confirmatory Soil Sampling

Sampling at SWMU 107 (WSMR-35) did not include collection of confirmatory soil samples because the tank did not exhibit any evidence of leaks and because any visually observed evidence of leaks beneath the evaporation pond liner may have been the result of the original release from the evaporation pond (SWMU 104) (Section 2.1, page 5, BAE Systems, 2003). An SVE system (SWMU 108) was used to remediate the soil beneath the evaporation pond that was impacted by the historic methylene chloride spill (Section 1, paragraph 5, MEVATEC, 2000a).

2.2.2.3 Results

None of the analytes were detected, except for toluene at 3.8 milligrams per liter (mg/L) in Sample #4. According to the Rinchem report, Sample #4 was collected after the first wash/rinse cycle, whereas Samples 1 through 3 were collected after the third wash/rinse cycle (Appendix A-1; Rinchem, 1990). The measurable toluene concentration is attributed to its early collection. The results are listed in Table 2-1. Because the samples were collected and analyzed in 1990, the detection limits are greater than the current Toxicity Characteristic Leaching Procedure (TCLP) regulatory limits.

2.2.2.4 Conclusions

The tank was thoroughly decontaminated, removed, and appropriately disposed (Section 3.4, MEVATEC, 2000a).

2.2.3 Closure Report

The Closure Report was submitted in 1990 and included the closure plan, the closure certification, and field notes (WSMR, 1990; Appendix A-2). It documented all closure activities at the TTF, including those at the evaporation tank (SWMU 107). In a letter dated September 1, 1998, the NMED approved closure at SWMU 107 (NMED, 1998a). In the 1998 letter, the NMED stated:

> *Therefore, NMED hereby verifies the Closure Certification of the TTF Evaporation Tank. This verification is effective and binding on the date of signature of this letter.*

NMED letter approving closure activities at the TTF is provided in Appendix A-3.

2.3 SWMU 107 Site Conceptual Model

2.3.1 Nature and Extent of Contamination

No constituents of concern (COCs) were identified for SWMU 107 (WSMR-35). SWMU 107 showed no indications of a release.

2.3.2 Environmental Fate and Transport

A release from SWMU 107 (WSMR-35) was not documented and no COCs were identified; therefore, a discussion of environmental fate and transport does not apply.

2.4 SWMU 107 Site Assessments

2.4.1 Screening Assessments

Tank decontamination and removal eliminated any potential for a release from SWMU 107 (WSMR-35). The clean closure, performed as a VCA, is protective of human health and the environment.

2.4.2 Risk Assessments

No human health or ecological risk assessments have been performed for SWMU 107 (WSMR-35).

2.4.3 Other Assessments

No other assessments were performed.

2.5 Recommendation for Corrective Action Complete without Controls for SWMU 107

2.5.1 Rationale

On the basis of characterization, the performed VCA, achieving closure at SWMU 107 (WSMR-35), and eliminating the potential for exposure to human health and the environment, a determination of CAC without controls is recommended for the following reasons:

- The TTF Evaporation Tank (SWMU 107 [WSMR-35]) has been decontaminated, removed, and disposed of properly (Rinchem, 1990).
- The NMED approved closure for SWMU 107 (NMED, 1998a)
- The potential for a release of COCs from SWMU 107 (WSMR-35) has been eliminated.
- The former location of SWMU 107 (WSMR-35) and the evaporation pond (SWMU 104) are now covered by an engineered cap (Section 2.1, paragraph 7, BAE Systems, 2003).
- Closure of SWMU 104 is complete (Section 2.1, paragraph 7, BAE Systems, 2003).
- Methylene chloride-contaminated soil was treated by an SVE system (SWMU 108).

The environmental effects of the absent evaporation tank (SWMU 107 [WSMR-35]) pose little potential hazard to human health and the environment. Records indicate that a release of methylene chloride from the evaporation pond occurred, but no visual evidence of a release from

SWMU 107 was observed. The methylene chloride release from the evaporation pond has been addressed through SWMUs 104 and 108 (Section 2.1, paragraph 7, BAE Systems, 2003).

2.5.2 Criterion

The evidence provided in Section 2.5.1 supports the recommendation for a determination of CAC without controls for SWMU 107 (WSMR-35). This is consistent with the NMED No Further Action Criterion 5, which states, "the SWMU/AOC has been characterized or remediated in accordance with current applicable state or federal regulations and the available data indicate that contaminants pose an acceptable level of risk under current and projected land use" (NMED, 1998b).

3.0 SWMUs 121 – 123 (WSMR-67) Asphalt Tanks at Stallion Range

The three Stallion Asphalt Tanks containing asphalt emulsion and primer were used during the paving of the Stallion Range Center roads (Figure 3-1). These tanks designated as SWMUs 121, 122, and 123 (WSMR-67) were clean-closed and removed in 1993 (Advanced Sciences Inc. [ASI], 1993). Based on the clean closure of the tanks, WSMR requests a determination for CAC without controls for SWMUs 121, 122, and 123 (WSMR-67).

3.1 SWMUs 121 – 123 Description and Operational History

3.1.1 Site Description

SWMUs 121, 122, and 123 (WSMR-67), located north of the Stallion Range Center just west of the Stallion Gate security checkpoint, consisted of three inactive, subgrade tanks. Two tanks were steel and one was aluminum (Kearney, 1988).

3.1.2 Operational History

Three sub-grade storage tanks were used in the 1960s during the paving of the Stallion Range Center roads (ASI, 1993). The storage tanks were labeled Tank 1 (SWMU 121), Tank 2 (SWMU 122), and Tank 3 (SWMU 123). Tanks 1 and 2 contained an asphalt emulsion and were constructed of plate steel. Tank 3, constructed of aluminum, contained a thin watery asphalt primer substance that was observed to have viscous asphalt-like material floating on it. Each storage tank had a capacity of approximately 15,000 gallons and dimensions of 26 feet in length by 9 feet in diameter (ASI, 1993).

Located on the side of a terraced hill, soil extended approximately halfway up the sides of the tanks on their northern end, while the soil on the southern ends of the tanks only extended approximately 1/8 up the tanks sides (ASI, 1993). The tanks were neither fully aboveground nor underground. No piping or vent lines were observed to be connected to or associated with the tanks (ASI, 1993). The Phase I RCRA Facility Investigation (RFI) mentions a trench located generally to the south of the tanks but does not describe its specific location, dimensions, orientation, or purpose (International Technology Corporation [IT Corporation], 1992). The Phase I RFI indicates that discoloration was visible in one of the walls of the trench (Section 2.14.3, IT Corporation, 1992). A composite sample of the contents of all three tanks was collected in April 1993 (ASI, 1993). Draining and removal of Tank 1 (SWMU 121) and Tank 2 (SWMU 122) occurred in 1993 (ASI, 1993). Due to a difference in the contents of Tank 3 (SWMU 123) from those of Tanks 1 and 2, Tank 3 and its contents were left at the site until it could be addressed at a later date (ASI, 1993). To drain the contents of Tanks 1 and 2, a trench of unknown dimensions was dug. Trenching occurred to allow a tanker truck to fit into the trench so that contents of Tanks 1 and 2 would drain by gravity flow into the tanker truck

(ASI, 1993). No tanks are currently located at the site; therefore, the third tank was removed some time after June 1993.

3.2 SWMUs 121 – 123 Previous Investigations

The Stallion Asphalt Tanks were included in two investigations under RCRA. SWMUs 121, 122, and 123 (WSMR-67) were identified during the RFA visual site inspection (Kearney, 1988). The three SWMUs were also investigated during the Phase I (IT Corporation, 1992) RFI, and two were closed in August 1993.

3.2.1 RCRA Facility Assessment

The RFA consisted of a search of the WSMR records of hazardous waste-related activity at SWMUs 121, 122, and 123 (WSMR-67) and a visual inspection of the sites in May 1988 (Kearney, 1988). The May 1988 RFA Report meets the requirements of the Release Assessment Report for the Stallion Asphalt Tanks.

3.2.1.1 Non-Sampling Data Collection

The three tanks were partially below grade with one of the tanks severely collapsed. The visible portions of the other two tanks appeared to be in good condition. All three tanks appeared to be empty and abandoned based upon a visual survey. A tar-like odor was apparent on the downwind side of the tanks. The ground on the north side of the tanks appeared to be stained with a tar-like substance that looked dry, dark, and cracked and appeared to have been there a long time (Kearney, 1988).

3.2.1.2 Sampling Data Collection

As the RFA was a visual survey, sampling data were not collected.

3.2.1.3 Results and Conclusions

The RFA concluded that the potential for the release of contaminants to soil, groundwater, air, and production of subsurface gas from SWMUs 121, 122, and 123 (WSMR-67) was “moderate.” For surface water, the RFA concluded that the potential for release to surface water was “low” due to the absence of a nearby surface water body (Section 5.76.2, Kearney, 1988).

3.2.2 Phase I RCRA Facility Investigation

The Phase I RFI was conducted in late February through April 1992 to determine whether a release of hazardous constituents occurred from SWMUs 121, 122, and 123 (WSMR-67) to the surrounding soil. The sampling plan was designed to characterize the site and to aid in determining whether additional site characterization or remediation was necessary (IT Corporation, 1992). The Phase I RFI included soil vapor sampling and soil sampling.

The soil vapor survey preceded the soil sampling and consisted of collecting a single soil vapor sample from 10 locations for analysis. A total of ten soil vapor samples were collected, and the sampling locations surrounded the three tanks, SWMUs 121, 122, and 123.

Soil samples from nine locations were collected and submitted to a laboratory for analysis; the nine locations included one background location and eight site characterization locations. At each location, samples were collected at depths of 0 feet bgs, 2 feet bgs, 5 feet bgs, and 10 feet bgs. The soil borings were advanced by hollow stem auger (Section 2.14.3, IT Corporation, 1992) (Figure 3-2).

As the administrative authority, the EPA approved the Phase I RFI Report in September 1993 (EPA, 1995).

3.2.2.1 Non-Sampling Data Collection

During sample collection, soil types and any visual indications of contamination were recorded on the soil boring log. During soil sampling, a thin layer of black, tar-like material was observed in the upper 2 feet of borings (B5, B6, and B7) in the trench near the tanks (Figure 3-2). No visual evidence of contamination was observed in any of the other borings (Section 2.14.3, IT Corporation, 1992).

Furthermore, an organic vapor analyzer was used to screen the samples for volatile vapors. Organic vapor concentrations ranged from 0 parts per million (ppm) to 530 ppm. The maximum concentration of 530 ppm was recorded at location B1 at 5 feet bgs (Figure 3-2).

3.2.2.2 Sampling Data Collection

The Phase I investigation included a ten-point soil-vapor survey (samples collected 5 to 7 feet bgs) and soil sampling at nine locations (Figure 3-2; Section 2.14.3, IT Corporation, 1992).

Soil Vapor Survey

Soil vapor sample collection occurred in February 1992. A specific sample date is not provided in either the Phase I RFI or the Soil Vapor Survey Report, and a search of WSMR records did not locate the original data. Based upon the calibration runs that are listed in the Soil Vapor Survey Report, soil vapor sampling may have occurred on February 18, 1992. The target compounds were carbon dioxide, methane, chloroform, benzene, 1,1,1- TCA, 1,1,2-TCA, TCE, and PCE.

Soil Sampling

Soil sampling began on February 11, 1992 and ended on February 12, 1992. Sampling was performed at nine locations, including one background location, and samples were collected from each location at 0, 2, 5, and 10 feet bgs, specifically one background location and eight

locations with soil borings angled beneath the tanks. Table 3-1 lists the analytes requested for each soil sample, analytical methods, sample dates, and sample type. Requested analyses included total metals, total mercury, total selenium, sulfides, total cyanide, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs) and organochlorine pesticides, organophosphorus pesticides, and herbicides for each initial sample (Section 2.14.3, IT Corporation, 1992). Due to matrix interferences, high-sample concentrations, field contamination, and constituent detection in laboratory blanks, several samples were re-analyzed, re-prepped, and/or re-sampled for chlorinated herbicides, VOCs, or PCBs/organochlorine pesticides; Table 3-1 also includes these samples. Re-sampling was performed on March 8, 1992; April 17, 1992; and April 18, 1992. Though a summary of the analytical data was included in the original Phase I RFI Report, the complete analytical data package was not included, and a search of WSMR and contractor records could not locate a copy; therefore, the original data package is not available.

3.2.2.3 Results

Soil Vapor Survey Results

Soil vapor survey data are presented in Table 3-2. Carbon dioxide was detected in all samples with concentrations ranging from 1.4 grams per cubic meter to 13 grams per cubic meter. The highest carbon dioxide concentration was detected in sample 121SV1. No other constituents were detected except for 1,1,1-TCA at a concentration of 25 milligrams per cubic meter in sample number 121SV2. No other target compounds, methane, or elevated carbon dioxide were detected. Methane, chloroform, benzene, 1,1,2-TCA, TCE, and tetrachloroethylene were not detected in any soil vapor samples.

Soil Sampling Results

Inorganics

No inorganic constituents were detected above NMED residential SSLs. The highest concentration of barium was 240 milligrams per kilogram (mg/kg), detected at 121B7SO05, below the NMED residential SSL of 15,600 mg/kg. Lead was detected in 13 samples with the highest concentration of 8.3 mg/kg detected at 121B3SO02, below the NMED residential SSL of 400 mg/kg. There is no NMED residential SSL/EPA RSL for sulfide; the highest detected concentration was 24 mg/kg at 121B1SO00. Finally, total cyanide was only detected at 121B3SO02 at 0.2 mg/kg and 121B5SO10 at 2.2 mg/kg, both below the NMED residential SSL for cyanide of 46.90 mg/kg. Table 3-3 summarizes all analytical results.

VOCs

No VOCs were detected in any of the samples at concentrations greater than NMED residential SSLs. Acetone was detected in nearly all samples at low concentrations, but the contractor determined it to be a result of isopropyl alcohol used for equipment decontamination between

samples (Section 2.14.3, IT Corporation, 1992). The highest concentration of acetone was detected at 24 mg/kg at 121B2SO02, well below the NMED residential SSL of 66,600 mg/kg for acetone. The analytical results are summarized in Table 3-3.

SVOCs

All SVOCs detected were also below NMED residential SSLs. Bis(2-ethylhexyl)phthalate was detected in four samples with a maximum concentration of 2.7 mg/kg detected at 121B1SO02, well below the NMED residential SSL of 347 mg/kg. Di-n-butylphthalate was also detected in three samples with a maximum concentration of 0.44 mg/kg at 121B8SO05, below the NMED residential SSL of 6,110 mg/kg. All results are show in Table 3-3.

PCBs/Pesticides

PCBs and organochlorine pesticides were detected at two locations, 121BG1SO02 and 121B4SO02. At both locations, the concentrations found were below NMED residential SSLs. Beta-benzene hexachloride (BHC) was only detected at BG1 at a concentration of 0.0059 mg/kg; the NMED residential SSL is 2.7 mg/kg. The highest concentrations of 4,4'-(1,1-bis(chlorophenyl)-2,2-dichloroethene) (DDE); and 4,4'-(1,1-bis(chlorophenyl)-2,2,2-trichloroethane) (DDT) were found at B4. The concentration of 4,4'-DDE was 0.062 mg/kg, below the 14.3 mg/kg SSL, and the concentration of 4,4'-DDT was 0.066 mg/kg, below the NMED residential SSL of 17.2 mg/kg. Analytical results are shown in Table 3-3.

3.2.2.4 Conclusions

The soil vapor sampling did not measure any elevated volumetric concentrations. All concentrations for inorganic, VOC, SVOC, and PCBs/pesticide constituents detected during the Phase I RFI were below the NMED residential SSLs. The most common constituents detected were acetone, barium, and lead. Acetone detections were determined to be the result of using isopropyl alcohol to decontaminate equipment, and acetone is an oxidation product of isopropyl alcohol (IT Corporation, 1992). Barium concentrations were far below the NMED residential SSL, and the results were typically at or below concentrations found at background locations. Lead concentrations were also far below the NMED residential SSL.

In September 1993, the EPA approved the Phase I RFI report and stated that SWMUs 121, 122, and 123 were among the "twenty-four (24) of the thirty-eight (38) SWMUs [that] require no further investigation and can be delisted or removed from WSMRs corrective action permit" (EPA, 1995).

3.2.3 Tank Removal

In 1993, WSMR performed a VCA to remove two storage tanks and excavate soil (ASI, 1993). The field work for the VCA was performed on April 26, 1993, and consisted of the removal of the two tanks and 3 feet of soil beneath and around the tanks (Section 3, ASI, 1993; Appendix B-1).

Tanks 1 and 2 were removed on June 28, 1993, and 3 feet of soil was excavated from beneath the tanks (Figure 3-3). At a later, unknown date, the third tank was removed; it is not present at the site. A records search did not yield information regarding removal of Tank 3.

3.2.3.1 Non-Sampling Data Collection

Approximately 5,550 gallons of product (asphalt primer solution) was removed from Tank 3 (SWMU 123) on April 26, 1993, and transported for recycling to Koch Materials Company located in Albuquerque, New Mexico. Approximately 1 foot of solidified asphalt-like material found floating on the primer could not be pumped and was left in the tank, (ASI, 1993; Appendix B-1).

Approximately 8,470 gallons of product (an asphalt emulsion) in Tanks 1 and 2 were removed on June 28, 1993, and transported for recycling to Koch Materials Company. The tanks themselves were transported for recycling to Torn Black's Enterprises, a scrap recycler located in Doña Ana, New Mexico (Section 3.1, ASI, 1993; Appendix B-1). Following soil excavation, the contractor reported that the remaining soil was not completely free of asphalt (ASI, 1993).

3.2.3.2 Sampling Data Collection

Waste Characterization Sampling

Each of the tanks contained a sludge-like residual material that required removal and disposal. Prior to initiating any corrective activities (e.g., tank removal, soil excavation) and to characterize the sludge for waste disposal, composite samples of the sludge remaining in each of the tanks were collected from each of the three tanks on April 15, 1993. The three composite sludge samples were analyzed for TCLP metals, TCLP VOCs, and TCLP SVOCs for waste characterization purposes (Section 2.2, ASI, 1993). The results are summarized in Table 3-4.

Confirmatory Soil Sampling

A total of four soil samples were collected at the bottom of the excavation floor (3 feet bgs) and analyzed for total petroleum hydrocarbon (TPH); Table 3-5 contains the sampling results. Two soil samples were collected at the bottom of the excavated area formerly occupied by each tank, SWMU 121 (Tank 1) and SWMU 122 (Tank 2). According to the tank closure report, the analytical suite did not include VOCs, SVOCs, PCBs/pesticides, and metals because none of these constituents were detected in Phase I soil samples at concentrations that exceeded their respective regulatory limits (ASI, 1993; Appendix B-1).

3.2.3.3 Results

Waste Characterization Sampling Results

Composite samples collected from all three tanks indicated constituent concentrations to be below TCLP regulatory limits (Table 3-4). Based on these results, the contractor recommended

the removal of the three tanks and 3 feet of soil, including the stained soil and tar-like material within the soil (ASI, 1993). Moreover, the results indicated that sending the tank contents to a recycler was an appropriate method of waste disposal (ASI, 1993).

Confirmatory Soil Sampling Results

The confirmation soil sample concentrations for TPH from the Tank 1 and Tank 2 excavations ranged from 61 to 3,800 mg/kg TPH (Table 3-5). Since the contents of the tank were asphalt-related, TPH concentrations have been compared to the NMED-established residential direct exposure level for unknown oil. The measured TPH concentrations are greater than the NMED-established residential direct exposure level for unknown oil of 1,000 mg/kg TPH (NMED, 2012).

3.2.3.4 Conclusions

Waste characterization sampling indicated that the tank sludge did not require storage and handling as a hazardous waste. According to the Phase I RFI Report, soil samples collected during the Phase I RFI were not submitted to the laboratory for analyses of TPH (see Section 3.2.2.2 above). Consequently, a current comparison of TPH concentrations in pre-excavation soil samples with TPH concentrations in post-excavation soil samples cannot be performed. The TPH data indicate that TPH concentrations in three of the four soil samples exceed the NMED-established residential direct exposure level for unknown oil. Though the excavation and sampling data for Tank 3 is unavailable, the site walk conducted by Shaw Environmental, Inc. on July 29, 2010 confirmed that Tank 3 was not present.

3.3 SWMUs 121 – 123 Site Conceptual Model

3.3.1 Nature and Extent of Contamination

The Phase I RFI concluded that the presence of acetone in soil and background samples was due to the use of isopropyl alcohol during sampling-equipment decontamination and was not due to a release at the site (Section 2.14.3, IT Corporation, 1992).

Trace concentrations of three pesticides that were significantly less than the NMED residential SSLs were detected at a depth of 2 feet. Barium, lead, cyanide, and sulfide were detected at background levels that were below NMED residential SSLs. All constituents detected, except for TPH, were well below NMED residential SSLs.

3.3.2 Environmental Fate and Transport

The detected constituents have low solubility in water and exhibit a tendency to adsorb to soil. As a result, they are considered relatively immobile in soil. Because of the immobility, the detected constituents are unlikely to pose a hazard to human health or the environment.

3.4 SWMUs 121 – 123 Site Assessments

3.4.1 Screening Assessments

No screening assessments were performed.

3.4.2 Risk Assessments

No risk assessments were performed.

3.4.3 Other Assessments

No other assessments were performed.

3.5 Recommendation for Corrective Action Complete without Controls for SWMUs 121 – 123

3.5.1 Rationale

In 1993, WSMR submitted a request to EPA petitioning to remove 25 SWMUs from the Hazardous and Solid Waste Amendments (HSWA) permit. EPA approved the removal of 24 SWMUs (including SWMUs 121-123) and published a Statement of Basis on November 29, 1995 (EPA, 1995). The Statement of Basis served as the EPA notice of decision that announced its intention to approve the request for a Class III Permit Modification (EPA, 1995; Appendix B-2). In the site-specific comments within the Statement of Basis, the EPA stated:

> *SWMU #'s 121-123 Stallion Range Center Subgrade Tanks: The units are inactive subgrade steel tanks [and an inactive aluminum tank]. No hazardous constituents were detected and the tanks are empty. The units are no longer required to follow the corrective action process. WSMR has volunteered to coordinate the removal of the tanks with NMED's RCRA program.* (EPA, 1995)

In 1999, WSMR requested that NMED amend the annual unit audit (AUA) by removing several corrective action units from the permit; SWMUs 121, 122, and 123 were included in the list of protested corrective action units. In a letter dated July 19, 1999, NMED responded to the request, and in the introductory portion of the letter, the NMED stated:

> *One of the ways we then use the AUA is to determine whether or not units are erroneously included on the permit. HRMB [Hazardous and Radioactive Materials Bureau] believes that a portion of units for which WSMR is requesting removal fall into this category. I must emphasize that units that should not exist on a permit must not be confused with units that must be formally removed from a permit. These latter units must be assessed an Annual Hazardous Waste Management Business Fee until they are formally removed from a permit,*

> *through a Class III permit modification, e.g., in response to a "No Further Action" (NFA) determination by the agency. A large number of WSMR's requested removals fall into this category.* (NMED, 1999; Appendix B-3)

The NMED addressed SWMUs 121, 122, and 123 as part of the group of "[u]nits that EPA Region 6 processed for NFA (SWMUs 18, 62, 79, 33, 34, 61, 92a, 92, 95 – 100, 121 – 123, 137, 141, 149, 151, 152, and 153" (NMED, 1999). Specifically, the NMED stated:

> *SWMUs 121 – 123: EPA required WSMR to coordinate with the New Mexico Environment Department (NMED) on the removal of some tanks as a condition of NFA concurrence. HRMB must ensure that coordination occurred prior to removing the unit from the AUA.* (NMED, 1999; Appendix B-3)

The Statement of Basis issued by the EPA granted approval for NFA and was not issued as a conditional approval for SWMUs 121, 122, and 123 (EPA, 1995; Appendix B-2). EPA granted approval on the grounds that "[n]o hazardous constituents were detected and the tanks [were] empty," and not on a future requirement for tank removal to be coordinated with the NMED. The EPA reconfirmed their decision in an April 28, 2000 letter to WSMR (Appendix B-4) stating:

> *The notice of decision removing the twenty-four (24) SWMUs from WSMRs HSWA permit was issued on November 29, 1995 and EPA was authorized to implement HSWA at that time. The New Mexico Environment Department was authorized to implement HSWA on January 1, 1996. Referencing the Statement of Basis – Final Decision "The final decision will become effective thirty days (30) after service of notice of the decision unless a later date is specified or review is requested under regulation 40 CFR 124.19. If no comments are received to request a change in the final determination, the decision to approve the application will become effective immediately upon issuance." The decision became effective December 29, 1995.* (EPA, 2000; Appendix B-4)

Furthermore, the EPA stated:

> *Consequently, the Statement of Basis – Final Decision issued by EPA removed all twenty-four (24) SWMUs from WSMRs* [sic] *HSWA Permit. This action does not preclude NMED from initiating Class III Permit Modification procedures to reinstate the twenty-four (24) SWMUs back into WSMRs* [sic] *HSWA permit should cause exist to do so.* (EPA, 2000; Appendix B-4)

On the basis of the characterization and the VCA undertaken at SWMUs 121, 122, and 123 (WSMR-67), which decreased the potential for exposure to human health and the environment, a determination of CAC without controls is recommended for the following reasons:

- NFA status was granted to SWMUs 121, 122, and 123 in 1995 under the administrative authority of the EPA (EPA, 1995; Appendix B-2).
- SWMUs 121 and 122 (Tanks 1 and 2) have been emptied, removed, and properly disposed (ASI, 1993; Appendix B-1).
- SWMU 123 (Tank 3) has been removed and disposed, as confirmed by the July 29, 2010 site walk.
- Soil beneath tanks 1 and 2 has been excavated to a depth of 3 feet bgs and disposed.
- The current land use is industrial and will remain industrial for the foreseeable future.

Through performance of the VCA, the environmental effects posed by the asphalt tanks to human health and the environment has been reduced.

3.5.2 Criterion

The evidence provided in Section 3.5.1 supports the recommendation for a determination of CAC without controls for SWMUs 121, 122, and 123 (WSMR-67). This is consistent with the NMED No Further Action Criterion 4, which states, "[a] release from the SWMU/AOC to the environment has occurred, but the SWMU/AOC was characterized and/or remediated under another authority (such as the New Mexico Environment Department's Underground Storage Tank or Ground Water Quality Bureaus), which adequately addressed RCRA corrective action, and documentation, such as a closure letter is available." (NMED, 1998b).

4.0 SWMU 156 (WSMR-57) Pesticide Storage Shed

4.1 SWMU 156 Description and Operational History

The Pesticide Storage Shed (Building T-1348), serving the WSMR golf course, was designated as SWMU 156 (WSMR-57) (Figure 4-1). This site was investigated during three phases of the RFI (MEVATEC, 2000b). The investigations indicated the presence of pesticides and herbicides in site soil; however, the pesticide and herbicide compounds were detected at concentrations below the NMED residential SSLs. Based upon these results, WSMR elected to perform a VCA to remove the storage shed and excavate 2 feet of soil (WTS, 2006). Confirmation soil sample results collected from the former shed footprint indicated that no leachable contamination was left on site (Section 6.6, Dow Environmental, Inc. [Dow], 1996). A Screening Level Ecological Risk Assessment (SLERA), was performed as part of the Phase III RFI, at the request of the NMED. The results of the SLERA indicated that a full ecological risk assessment was not warranted (Section 4.8.6, WTS, 2006). Based on these results, WSMR requests the change in status from corrective action required to corrective action complete without controls for SWMU 156 (WSMR-57).

4.1.1 Site Description

Building T-1348 was located at the Main Post Golf Course approximately 1,000 feet southeast of the Officer's Club, but was removed in 1996 during VCA activities, thus resulting in remediation of contaminants. Figure 4-2 shows a current view of the site. The metal building with wooden-plank flooring was set on a concrete foundation measuring 20 feet by 50 feet. Subsequent to site sampling, the building and foundation were removed, and the site was graded to conform to the golf course topography (MEVATEC, 2000b).

4.1.2 Operational History

Building T-1348 was used for over 30 years to store pesticides, fungicides, and pesticide equipment. The site was inactive by the time the Phase I RFI was conducted in 1992 (MEVATEC, 2000b).

4.2 SWMU 156 Previous Investigations

SWMU 154 was not included in any of the RFA reports, but was listed in a 1997 SWMU Inventory Report. The April 1997 SWMU Inventory Report meets the requirements of the Release Assessment Report for the Pesticide Storage Shed.

4.2.1 Investigation #1: Phase I RCRA Facility Investigation

The Phase I RFI was conducted to determine if hazardous constituents had been released from SWMU 156 (WSMR-57) to the surrounding soil. The sampling plan was designed to determine

whether additional characterization or remediation of the site would be necessary. The Phase I report was issued in December 1992 (IT Corporation, 1992).

4.2.1.1 Non-Sampling Data Collection

The contractor reported that "no visual evidence, odor, or photoionization detector readings indicated contamination" (Section 2.33.3, page number 2-76, IT Corporation, 1992).

4.2.1.2 Sampling Data Collection

The Phase I RFI included 10 soil samples from five shallow borings located within the storage-shed foot print. The samples were analyzed for VOCs, SVOCs, metals, chlorinated herbicides, PCBs/organochlorine pesticides, and organophosphorus pesticides (Section 2.33.3, IT Corporation, 1992). Sample names, analytical methods, and analytical suites are listed in Table 4-1. A search of WSMR records and contractor records could not locate the analytical data packages for the Phase I RFI. Tables 4-2 and 4-3 list the detected constituents. Soil sample locations are shown in Figure 4-3.

4.2.1.3 Data Gaps

Sampling and analyses of the soil samples were performed as planned. The Phase I RFI did not identify any data gaps.

4.2.1.4 Soil Sampling Results

Volatile Organic Compounds

VOCs were not detected in soil samples collected at this site.

Semivolatile Organic Compounds

SVOCs were not detected in soil samples collected at this site.

Chlorinated Herbicides

Three herbicides were detected at concentrations below the regulatory limit. 2,4,5-trichlorophenoxyacetic acid (2,4,5-T) was detected in only one sample, 156SB1SO02RS, at a concentration of 0.02 mg/kg, which is below the EPA residential RSL of 610 mg/kg. 2,4-dichlorophenoxyacetic acid (2,4-D) was detected in five samples, the highest of which was 7.5 mg/kg at 156SB1SO02RS. All concentrations detected were below the 690 mg/kg EPA RSL. 4-(2,4-dichlorophenoxy) butyric acid (2,4-DB) was detected in three different samples, and the highest concentration was 0.034 mg/kg at 156SB3SO02RS. All three detections were far below the EPA RSL of 490 mg/kg. Results are displayed Table 4-2.

Organophosphorus Pesticides

Two organophosphorus pesticides, diazinon and dichlorvos, were detected in two samples at concentrations less than the regulatory limit. Diazinon was found in two samples, with the

highest concentration being 2.5 mg/kg at 156B1SO01, which is below the EPA residential RSL of 43 mg/kg. Dichlorvos was only detected at 156B1SO01 with a concentration of 0.04 mg/kg, which is below the EPA residential RSL of 1.7 mg/kg. Results are displayed Table 4-2.

PBCs/Pesticides

Ten compounds were detected at concentrations below the regulatory limits. Aldrin was detected in three samples; the highest concentration was 0.0062 mg/kg at 156B4SO01, below the NMED residential SSL of 0.284 mg/kg. Beta-BHC was detected only at 156B4SO01 with a concentration of 0.0077 mg/kg, below the 2.7 mg/kg SSL. 156B1SO01 was the only location where delta-BHC was detected with a value of 0.0059 mg/kg. The highest concentration of 4,4'-DDE was detected at 156B1SO01 at 0.0092 mg/kg, well below the NMED residential SSL of 14.3 mg/kg. 156B1SO01 was the only location where Endosulfan II and endrin aldehyde were detected, with concentrations of 0.0068 mg/kg and 0.0075 mg/kg, respectively. 4,4'-DDT was detected at five locations, all of which were far below the NMED residential SSL of 17.2 mg/kg. There were nine locations where chlordane was found. The highest concentration was found at 156B4SO01 at 0.030 mg/kg, below the NMED residential SSL of 16.2 mg/kg. Gamma-BHC (Lindane) was detected at one location, 156B5SO03, with a concentration of 0.0038 mg/kg, below the NMED residential SSL of 5.17 mg/kg. Finally, heptachlor epoxide was also only detected at one location, 156B4SO03B, at a concentration of 0.0036 mg/kg, below the NMED residential SSL of 0.053 mg/kg. Results are displayed Table 4-2.

Metals

No metals were measured at concentrations greater than their respective NMED residential SSLs; neither selenium nor silver were detected at any location. Arsenic, barium, and lead were all detected at concentrations higher than the concentrations determined in the site-specific background location. The highest concentration of arsenic was 3.2 mg/kg at 156B4SO01, below the NMED residential SSL of 3.9 mg/kg. Only three locations were greater than the background concentration of barium, with the maximum concentration of 80 mg/kg from location 156B3SO03, significantly less than the NMED residential SSL of 15,600 mg/kg. Lead was detected at all sampling locations except for 156B5SO01. The maximum lead concentration was 15 mg/kg at 156B2SO01, less than the NMED residential SSL of 400 mg/kg. Mercury was detected at location 156B1SO01 at a concentration of 1.4 mg/kg, below the NMED residential SSL of 15.60 mg/kg. All results for metals analysis are shown in Table 4-3.

4.2.1.5 Conclusions

None of the constituents were detected at concentrations above their relevant NMED residential SSLs or EPA RSLs. The Phase I RFI concluded that the data did not indicate a significant release to the subsurface nor did it indicate surface migration of contaminants (Section 2.33.4,

IT Corporation, 1992) because detected pesticide, herbicide, and metal constituent concentrations were less than the NMED residential SSLs. The Phase I RFI found that the detected constituent concentrations beneath the storage shed, and possibly in the wooden floor, could pose a hazard to children or adolescents if the building were used as a place to congregate or play. Thus, the Phase I RFI report recommended removal of the building, excavation of soil to a depth of 1 foot, proper disposal of all generated waste, and re-grading of the area (Section 2.33.4, IT Corporation, 1992).

4.2.2 Investigation #2: Phase II RCRA Facility Investigation

To further the investigation, additional soil samples were collected during the 1994 Phase II RFI, which was approved by the NMED in a letter dated September 4, 1996 (Appendix C-2; NMED 1996).

4.2.2.1 Non-Sampling Data Collection

Non-sampling data are not reported (Sverdrup Environmental Corporation [Sverdrup], 1994).

4.2.2.2 Sampling Data Collection

Eleven 5-foot hand-auger borings were installed beneath the floor of the shed. Soil samples were taken at the 0 to 1-, 2 to 3-, and 4 to 5-foot intervals. Samples were submitted to a laboratory for analyses of VOCs, SVOCs, PCBs/pesticides, organophosphorus pesticides, organochlorine herbicides, and metals (Section 6.30.2, Sverdrup, 1994). A total of 32 samples were collected, including quality control samples matrix spike, and matrix spike duplicate samples. Sample names, analytical suites, and analytical method numbers are listed in Table 4-4. Soil sampling locations are shown on Figure 4-3.

4.2.2.3 Soil Sampling Results

Tables 4-5 and 4-6 summarize the detected results of the Phase II RFI. The analytical data package is provided in Appendix C-1.

Volatile Organic Compounds

Detected VOCs were below their respective NMED residential SSLs. Acetone was found in three samples, and the highest concentration was 0.0541 mg/kg, found at 0156HA02 (2 feet bgs), below the NMED residential SSL of 66,600 mg/kg. Carbon tetrachloride was present in eight samples, the highest of which was at 0156HA04 (2 feet bgs), with a concentration of 0.0525 mg/kg, below the NMED residential SSL of 10.80 mg/kg. Hand-auger sample 0156HA04 (2 feet bgs) was also the location where the highest concentration of 1,1-dichloroethene was detected at 0.0157 mg/kg, well below the NMED residential SSL of 449 mg/kg. Methylene chloride and 1,1,1-TCA were both detected at five locations. The NMED residential SSL for methylene chloride is 409 mg/kg, and the highest concentration found

was 0.0082 mg/kg at 0156HA03 (2 feet bgs). The NMED residential SSL for 1,1,1-TCA is 15,600 mg/kg, and the highest concentration found was 0.31 mg/kg at 0156HA04 (2 feet bgs). All VOC results are shown in Table 4-5.

Semivolatile Organic Compounds

SVOCs were not detected in any of the soil samples collected during the Phase II RFI.

Organochlorine Herbicides

Organochlorine herbicides were not detected in soil samples at this site.

Organophosphorus Pesticides

Organophosphorus pesticides were not detected in any of the soil samples collected during the Phase II RFI. Useable organophosphorus pesticide results were not obtained from seven samples because of low surrogate recoveries (Sverdrup, 1994).

PCBs and Organochlorine Pesticides

Four pesticides were detected in the samples collected. Three pesticides [4,4'-(1,1-bis(chlorophenyl)-2,2-dichloroethane) (DDD); 4,4'-DDT; and Endosulfan I] were detected in the surface sample collected from location 0156HA10. At this location, the concentration of 4,4'-DDD was 0.00755 mg/kg, less than the NMED residential SSL of 20.3 mg/kg. At the same location (156HA10), the measured concentration of 4,4'-DDT was 0.0197 mg/kg, less than the NMED residential SSL of 17.2 mg/kg, and the Endosulfan I concentration was 0.0154 mg/kg, below the NMED residential SSL of 367 mg/kg. 4, 4'-DDE was found in three samples; the highest concentration was 0.0048 mg/kg at 0156HA10 collected from the surface and was less than the NMED residential SSL of 14.3 mg/kg. All results are shown in Table 4-5.

Metals

Five metals were detected at concentrations below the NMED residential SSLs. The maximum concentration of barium was 85.8 mg/kg collected from 0156HA06 (4 feet bgs). The maximum barium concentration was below the NMED residential SSL of 15,600 mg/kg. Cadmium was detected at five locations. The maximum cadmium concentration was 7.15 mg/kg collected from 0156HA07 (4 feet bgs); the maximum cadmium concentration was below the NMED residential SSL of 70.30 mg/kg. The maximum concentration of chromium was 149.0 mg/kg collected from 0156HA10QC (surface). The maximum chromium concentration was less than the NMED residential SSL of 117,000 mg/kg. Lead concentrations were measured in all samples; the maximum lead concentration was 19.1 mg/kg at 0156HA09 (surface). The maximum lead concentration was below the NMED residential SSL of 400 mg/kg. Mercury was found in seven samples, and the maximum concentration was 0.316 mg/kg in 0156HA09 (surface). The NMED residential SSL for elemental mercury is 15.60 mg/kg. The arsenic, selenium, and silver

concentrations were below laboratory detection limits. All analytical results for metals can be found in Table 4-6.

4.2.2.4 Conclusions

Several constituents were detected at low concentrations during the Phase II RFI, but each was below NMED residential SSLs. The surface sample collected from 0156HA10 was the only location where four PCB/pesticide compounds were detected, had the highest concentration for chromium, and had the second highest concentrations of lead and mercury. The Phase II RFI report concluded that the data do not indicate a release occurred in excess of NMED residential SSLs, and recommended no further investigation (Section 6.30.4, Sverdrup, 1994). In a letter dated September 4, 1996, the NMED "approve[d] the investigative data within the Phase II RFI Report" (NMED, 1996; Appendix C-2).

4.2.3 Investigation #3: Site Closeout

WSMR performed a VCA at SWMU 156 (WSMR-57) in 1995. The concrete pad, wooden floor, plastic cover, and 2 feet of soil from the building footprint were removed and disposed in the WSMR landfill in February 1995 (Section 6.5, Dow, 1996). The excavated area subsequently was contoured to match the surrounding area (Section 6.5, Dow, 1996).

4.2.3.1 Non-Sampling Data Collection

Non-sampling data was not reported.

4.2.3.2 Remedial Action and Sampling Data Collection

Pre-Excavation Sampling

Site Characterization: Wood and Soil

Two composite samples were collected from the wood debris/former wood floor and were submitted to the laboratory for analysis of RCRA eight metals. No other analyses were performed on the composite wood samples collected from the wood debris of the wooden floor. The report does not explain the purpose for performing RCRA eight metals analyses on the composite wood samples (Section 6.3.2, Dow, 1996).

Ten soil samples were collected from beneath the wood floor and submitted to the laboratory for analysis of RCRA eight metals (Dow, 1996). The results of these analyses were used to guide the soil excavation and removal.

Waste Characterization: Wood and Soil

Composite samples of wood debris/ former wooden floor were collected from the floor of the former shed and prepared by TCLP and analyses on the wood samples included VOCs, SVOCs, PCBs, pesticides, herbicides, and RCRA metals (Section 6.3.2, Dow, 1996).

Prior to beginning the VCA, 10 soil samples were collected from beneath the floor from depths of 0 to 1 feet bgs and 1- to 2-foot bgs intervals for waste characterization (Section 6.3, Dow, 1996). Soil samples were prepared by TCLP and analyzed for the eight RCRA metals.

Post-Excavation Confirmation Soil Sampling

Following soil excavation to a depth of approximately 2 feet bgs, three confirmation soil samples were collected in the building footprint as shown in the Figure 4-3, prepared by TCLP, and analyzed for eight RCRA metals, herbicides, and pesticides (Section 6.5, Dow, 1996). Confirmatory soil sample locations are displayed in Figure 4-3; however, the original report did not include the sample numbers on the figure, and the report does not contain field notes. Consequently, the specific locations of the confirmatory samples are unknown.

4.2.3.3 Sampling Results

The analytical data package could not be located in a records search. The results discussed below are based upon the results published in the site close-out report (Dow, 1996).

Pre-Excavation Sampling

Site Characterization: Wood and Soil

Arsenic, lead, and mercury concentrations exceeded the NMED residential SSLs. The NMED residential SSL for arsenic is 3.90 mg/kg, which was exceeded in the samples collected from the 0- to 1-foot bgs interval at the northwest, northeast, and southeast corner locations. The maximum arsenic concentration was 9.2 mg/kg at 156-NE-01 (0 to 1 feet bgs), collected from the northeast corner of the building. Lead was measured at a concentration equal to the NMED residential SSL of 400 mg/kg at 156-SE-01 (0 to 1 feet bgs), which was collected from the southeast corner of the building. One sample exceeded or met the NMED residential SSL for lead. Mercury exceeded the NMED residential SSL of 15.60 mg/kg at 156-NE-01 (0 to 1 feet bgs) with a measured concentration of 19.0 mg/kg. All results are shown in Table 4-7.

In the composite wood samples, RCRA eight metals concentrations were not detected.

Waste Characterization: Wood and Soil

Waste characterization wood and soil samples collected prior to remedial action indicated that wood and soil waste were suitable for nonhazardous disposal at WSMR landfill (Section 6.4, Dow, 1996). Waste characterization results by TCLP can be found in Table 4-8.

Barium and mercury were detected in the wood composite samples. Barium concentrations ranged from 0.50 to 0.518 mg/L, less than the TCLP limit of 100 mg/L. In one wood composite sample, mercury was measured at a concentration of 0.0124 mg/L, less than the TCLP limit of 0.2 mg/L. Concentrations of VOCs, SVOC, PCBs, pesticides, and herbicides were below detection limits, for the composite wood samples that were prepared by TCLP.

Soil samples collected from beneath the building were prepared by TCLP and analyzed for RCRA eight metals; results are listed in Table 4-8. Several metals were detected at low concentrations, but none of the concentrations were above the regulatory limits for TCLP metals. The maximum barium was 1.08 mg/L at location 156-C-12 (1 to 2 feet bgs); the maximum barium concentration was below the TCLP regulatory limit of 100 mg/L. Five samples had detectable concentrations of cadmium. The maximum concentration was 0.096 at 156-SE-01-QC (0 to 1 feet bgs), less than the TCLP limit of 1.0 mg/L. Chromium was detected in two samples. The maximum chromium concentration was 0.17 mg/L at 156-NW-01 (0 to 1 feet bgs), below the TCLP limit of 5 mg/L. Mercury was detected at one location, 156-NE-01 (0 to 1 feet bgs) with a concentration of 0.0026 mg/L, less than the TCLP limit of 0.2 mg/L. Concentrations of arsenic, lead, selenium, and silver were below laboratory detection limits.

Confirmation Soil Sampling

Following excavation of approximately 2 feet of soil, three confirmation soil samples were collected in the building footprint, as shown in the Figure 4-3, prepared by TCLP, and analyzed for eight RCRA metals and herbicides/pesticides (Section 6.5, Dow, 1996). Unfortunately, the original report (Dow, 1996) did not include the sample numbers on the original figure, and the appendices do not contain any field notes. No pesticides or herbicides were detected in the confirmation soil samples. Barium was detected at a concentrations ranging from 0.31 to 0.41 mg/L (Dow, 1996), which was below the TCLP limit of 100 mg/L. Confirmation sample results are summarized in Table 4-9.

4.2.3.4 Conclusions

The previous Phase I and Phase II RFI investigation results determined that constituent concentrations were below NMED residential SSLs concentrations in soil samples collected from depth intervals of 0 to 1 ft bgs, 2 to 3 ft bgs, and 4 to 5 ft bgs beneath the floor of the building. The pre-excavation soil samples, collected from depth intervals of 0 to 1 ft bgs and 1 to 2 ft bgs beneath the floor of the building as part of site close out activities, had concentrations of arsenic, lead, and mercury in excess of their respective NMED residential SSLs. Based upon these results, the building, foundation, and 2 feet of soil were removed as part of a VCA to protect children/adults who might possibly congregate around the building area. Metals concentrations in soil samples analyzed for TCLP metals that were collected before and after the VCA did not exceed any of the TCLP limits. Confirmation soil sample results for TCLP metals and TCLP pesticides were below regulatory limits.

4.2.4 Investigation #4: Phase III RCRA Facility Investigation

After submitting the Phase II RFI report and completing the VCA at SWMU 156, WSMR submitted a Petition for a Class III Permit Modification in 2000 (MEVATEC, 2000b). The NMED responded in a letter dated March 11, 2002 that the petition was administratively

incomplete (NMED, 2002). Site-specific comments regarding SWMU 156 stated, "Phase I [and] II RFIs shows no HWCs [hazardous waste constituents] above NMSSLs – no significant contamination from this unit" (NMED, 2002). However, the NMED required that WSMR submit an ecological risk assessment. As part of the Phase III RFI, WSMR performed the requested risk assessment for SWMU 156 (Section 4.8.4, WTS, 2006).

4.2.4.1 Non-Sampling Data Collection

WSMR conducted a SLERA with a biological survey (WTS, 2006; Appendix C-3). No samples from any medium were collected for analysis.

4.2.4.2 Sampling Data Collection

No samples were collected as part of Phase III RFI for SWMU 156 (WSMR-57).

4.2.4.3 Results

The SLERA found no sensitive environmental areas within 3 miles of the site and determined that the site does not serve as a habitat or foraging area for endangered or rare species of plants or animals (Section 4.8.4, WTS, 2006). The only aquatic feature close to the site is an arroyo, which does not discharge to any surface water body.

4.2.4.4 Conclusions

The SLERA indicated that a complete exposure pathway for SWMU 156 (WSMR-57) does not exist, and a full ecological risk assessment is not warranted (Appendix C-3). The NMED approved the Phase III RFI in a letter dated November 7, 2008 (NMED, 2008; Appendix C-4).

4.3 SWMU 156 Site Conceptual Model

4.3.1 Nature and Extent of Contamination

Based upon the Phase I and II RFIs, all contaminant concentrations were determined to be less than current NMED residential SSLs, were horizontally limited to the building footprint, and were vertically limited to 1 to 3 feet bgs. The pre-excavation sampling determined that concentrations of arsenic, lead, and mercury exceeded NMED residential SSLs at three locations within the building footprint and vertically limited to a maximum of 2 ft bgs. To protect human health and the environment, WSMR performed a VCA in 1996, by removing the building, wooden flooring, and foundation, and by excavating the soil beneath the storage shed.

4.3.2 Environmental Fate and Transport

Due to the low measured concentrations of organic and inorganic constituents at SWMU 156 (WSMR-57), the contaminants are not anticipated to migrate either vertically or horizontally to detrimentally affect human health and the environment.

4.4 SWMU 156 Site Assessments

4.4.1 Screening Assessments

The sampling analyses indicate that the risk-based screening action levels established by state and federal regulatory agencies were not exceeded at SWMU 156 (WSMR-57).

4.4.2 Risk Assessments

The SLERA concluded that a full-scale ecological risk assessment was not warranted since the source of contamination had been removed from the site and a complete exposure pathway does not exist (Section 4.8.4, WTS, 2006).

4.4.3 Other Assessments

A screening assessment for soil erosion potential at the site was conducted according to the procedure developed by the NMED Surface Water Quality Bureau (WTS, 2000). The erosion potential survey found that the risk of contaminant migration with storm water is low (the site scored 6.6 on a scale of 100) (Section 10.5.3, WTS, 2000).

4.5 Recommendation for Corrective Action Complete without Controls for SWMU 156

4.5.1 Rationale

In its September 4, 1996 letter, the NMED concurred with results of previous investigations and the VCA at SWMU 156, stating in the site-specific comments:

> *A removal action was performed at this site in which all soil contaminants above action levels were removed. The Administrative Authority recommends removal of this SWMU from WSMR's permit. WSMR should propose a permit modification for this site.* (NMED, 1996; Appendix C-2)

Additionally, in general comments of the September 4, 1996 letter, the NMED recommended:

> *WSMR should provide a proposal to the Hazardous and Radioactive Materials Bureau (HRMB) of the NMED to perform a Class III permit modification to remove the appropriate SWMUs for WSMR's HSWA permit. Those SWMUs include the following: 10/11, 16, 17, 19/20, 62, 80, 132, 140, 150, and 156.* (NMED, 1996; Appendix C-2)

In its November 7, 2008 letter, NMED approved the Phase III RFI Report for multiple Main Post Sites (SWMUs 8-17, 21, 22, 80, 140 and 156, stating:

> *The New Mexico Environment Department (NMED) has completed its review of the Department of the Army's (the Permittee) Phase III RCRA Facility Investigation (RFI) Report Main Post Multiple Sites (SWMUs 8 – 17, 21, 22, 80, 140, and 156), dated May 2006 and the Permittee's response, dated October 7, 2008. NMED hereby approves the Report with conditions listed below.* (NMED, 2008; Appendix C-4)

None of the three listed conditions pertained directly to SWMU 156, as they specifically addressed SWMU 21.

On the basis of previous investigations and the completed VCA, which decreased the potential for exposure to human health and the environment, a determination of CAC without controls is recommended for the following reasons:

- Soil sampling results from the Phase II RFI report, prior to soil excavation and removal, were below the NMED residential SSLs.
- Previous investigations were approved by the NMED for SWMU 156 (WSMR-57) (NMED, 1996 and NMED, 2008)
- WSMR performed a VCA by removing and disposing of the pesticide storage shed, floor, and foundation, which eliminated the contaminant source (Dow, 1996).
- As part of the VCA, the soil beneath the pesticide storage shed was excavated and disposed (Dow, 1996).
- WSMR submitted a SLERA as requested by the NMED. No risk assessment is necessary for SWMU 156 (WSMR-57) (NMED, 2008).
- No COCs are present at concentrations that are hazardous to human health or the environment.
- The current land use is industrial and will remain industrial for the foreseeable future.

4.5.2 Criterion

The evidence provided in Section 4.5.1 supports the recommendation for a change in status from corrective action required to CAC without controls for SWMU 156 (WSMR-57). This is consistent with the NMED No Further Action Criterion 5, which states, "the SWMU/AOC [Area of Concern] has been characterized or remediated in accordance with current applicable state or federal regulations and the available data indicate that contaminants pose an acceptable level of risk under current and projected land use" (NMED, 1998b).

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5.0 SWMU 163 (WSMR-72) Commissary Landfill Trench

5.1 SWMU 163 Description and Operational History

An old, inactive landfill was discovered during the construction of a new commissary in 1994 (refer to Figure 5-1 for landfill location). The old landfill was estimated to have been in operation between 1946 and 1952 (ASI, 1994a). Initial soil sampling results from the TCLP indicated elevated lead concentrations greater than the RCRA maximum concentration of contaminants for the toxicity characteristic (40 CFR 261.24). A VCA was performed. Landfill waste and all visibly stained soil were excavated and removed for disposal (ASI, 1994a and 1994b). Confirmatory soil samples were collected after the VCA. The analytical results indicated that lead concentrations were below the NMED residential SSL of 400 mg/kg (NMED, 2012).

5.1.1 Site Description

SWMU 163 (WSMR-72), the Commissary Landfill Trench, is located on Picatinny Avenue, approximately one-quarter mile west of Headquarters Avenue at the WSMR Main Post, 27 miles east-northeast of Las Cruces, New Mexico.

5.1.2 Operational History

During the construction of a new WSMR commissary in 1994, an old, inactive landfill was discovered. Little is known about the landfill; it is estimated that the landfill operated between 1946 and 1952 (ASI, 1994a and 1994b). The exact contents or quantities of waste placed in this landfill are unknown (ASI, 1994a). To allow construction to proceed, the landfill was investigated to determine the extent and waste type, excavated to remove the waste and stained soil, sampled to confirm waste removal, and backfilled with clean fill to complete facility construction (Section 1, ASI, 1994a). The former trench is now partially covered with asphalt (Figure 5-1).

5.2 SWMU 163 Previous Investigations

SWMU 163 (WSMR-72) was not part of any of the RFAs and RFIs performed at WSMR. SWMU 163 was listed in an April 1997 SWMU Inventory Report; this report meets the requirements of the Release Assessment Report for the Commissary Landfill Trench.

The investigations at the SWMU 163 abandoned landfill involved initial sampling to characterize the site, excavation of landfill material and visibly stained soil, and subsequent collection of confirmation soil samples (ASI, 1994a).

5.2.1 Initial Sampling and Characterization

SWMU 163 (WSMR-72) was discovered during construction of the new commissary in 1994. Although soil samples were collected from various locations to determine whether the soil contained any hazardous constituents, the sampling locations were not documented (ASI, 1994a). Consequently, the sampling locations are not shown on any figure. A copy of the initial investigation data is provided in Appendix D-1 but the sampling locations were not found during a records search.

5.2.1.1 Non-sampling Data Collection

Non-sampling data were not reported.

5.2.1.2 Soil Sampling Data Collection

Initial soil sampling at the abandoned landfill was performed in August 1994 to ascertain the presence of hazardous constituents. A total of eight soil samples were collected (Section 1, ASI, 1994a). Three soil samples were analyzed for TCLP metals; three soil samples were analyzed for total metals; and two soil samples were analyzed for VOCs by EPA Methods 1311, 6010, and 8021, respectively (EPA, 1986). The analytical results are summarized in Table 5-1.

5.2.1.3 Soil Sampling Results

The sampling locations are not shown on a figure because they were not documented (ASI, 1994a).

Volatile Organic Compounds

Two soil samples were analyzed for VOCs. Results for five compounds were provided in the report, including methylene chloride, PCE, TCE, trichlorofluoromethane, and 1,1,1-TCA (ASI, 1994a). Whether the analytical suite was limited to these five organic compounds or included additional compounds is not discussed in the report and additional information could not be located. None of the five organic constituents were detected in either of the soil samples collected (Table 5-1).

RCRA Metals

Three soil samples each were analyzed for TCLP and total metals, including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.

Total Metals

The maximum concentration of lead was 16,200 mg/kg in sample SOIL-COMM II, which exceeds the NMED residential SSL of 400 mg/kg (NMED, 2012). The maximum concentration of barium was 131 mg/kg, which is less than the NMED residential SSL of 15,600 mg/kg. The maximum measured concentration of chromium was 5.7 mg/kg, which is less than the NMED residential SSL of 117,000 mg/kg (as trivalent chromium). Chromium was detected in only one

sample (Table 5-1). Concentrations of arsenic, cadmium, mercury, selenium, and silver were below method detection limits.

TCLP Metals

All metals, except lead, were below TCLP regulatory limits (Table 5-1). Lead was measured at a concentration of 37 mg/L in sample SOIL-COMM I, which exceeds the TCLP regulatory limit of 5 mg/L.

5.2.1.4 Conclusions

The measured lead concentrations exceed the NMED residential SSLs and TCLP regulatory limits. No other metals exceed the regulatory limits. No VOCs were detected in the samples.

5.2.2 Excavation and Confirmation Sampling

Due to the high lead concentrations, WSMR prepared and implemented a plan to excavate, remove, and dispose of contaminated soil (ASI, 1994a). The landfill material was excavated and placed into roll-off containers. Confirmatory soil samples were collected to determine the efficacy of the excavation and removal procedures. Waste characterization samples were collected from the excavated landfill material in the roll-off containers to determine the appropriate disposition, as either hazardous or nonhazardous waste. Robin Brown, a representative from the NMED Hazardous and Radioactive Materials Bureau observed the sampling event and collected split samples (Section 2, ASI, 1994a).

5.2.2.1 Non-sampling Data Collection

A photoionization detector was used to monitor ambient conditions while the waste characterization samples were being collected from the roll-off containers (Section 2, ASI, 1994b).

5.2.2.2 Sampling Data Collection

Confirmation Soil Sampling

Confirmation soil sampling of the trench was conducted in September 1994. Twenty-two confirmation soil samples were collected from the sampling locations shown in Figure 5-2. Sidewall samples were each located 1 foot above the trench floor (Section 2, ASI, 1994a). Samples from the trench floor were located on the bottom of the trench at a distance of 1 foot from the sidewall (ASI, 1994a). The confirmation soil samples were analyzed for priority pollutant metals plus barium by EPA Method 6010, pesticides and PCBs by EPA Method 8080, chlorinated herbicides by EPA Method 8150, VOCs by EPA Method 8260, and SVOCs by EPA Method 8270 (EPA, 1986). Confirmatory sampling data package is provided in Appendix D-2.

Waste Characterization

WSMR personnel excavated the landfill material and placed it into 82 roll-off containers (Figure 5-1 and Figure 5-2). Waste characterization samples were collected as composite samples from each roll-off container and analyzed for TCLP metals, TCLP pesticides, TCLP VOCs, TCLP SVOCs, and PCBs to determine proper waste disposal (Section 3, ASI, 1994b).

5.2.2.3 Results

Confirmation Soil Sampling

Metals

None of the analytical results for metals exceed the NMED residential SSLs. The maximum detected metal concentrations in the confirmation soil samples and respective NMED residential SSLs are as follows:

- Arsenic at 1.5 mg/kg, less than the NMED residential SSL of 3.9 mg/kg
- Barium at 140 mg/kg, less than the NMED residential SSL of 15,600 mg/kg
- Cadmium at 5 mg/kg, less than the NMED residential SSL of 70.3 mg/kg
- Chromium at 5 mg/kg, less than the NMED residential SSL of 117,000 mg/kg, as trivalent chromium
- Copper at 91 mg/kg, less than the NMED residential SSL of 3,130 mg/kg
- Lead at 53 mg/kg, less than the NMED residential SSL of 400 mg/kg
- Nickel at 13 mg/kg, less than the NMED residential SSL of 1,560 mg/kg
- Silver at 4 mg/kg, less than the NMED residential SSL of 391 mg/kg
- Zinc at 89 mg/kg, less than the NMED residential SSL of 23,500 mg/kg

Several metals were not detected, including antimony, beryllium, mercury, selenium, and thallium. The confirmation soil sampling results for metals are presented in Table 5-2.

Organic compounds

None of the organic compounds (PCBs, pesticides, chlorinated herbicides, VOCs, and SVOCs) were detected in the confirmatory soil samples (Appendix D-2).

Waste Characterization

Of the 82 waste characterization samples collected from the roll-off containers, the results for 7 samples indicated lead concentrations exceeding the TCLP regulatory limit of 5 mg/L. Barium and cadmium were also detected at low concentrations that do not exceed their respective TCLP limits of 100 mg/L and 1.0 mg/L. The analytical results for the waste characterization samples are presented in Table 5-3. Based on the analytical results, excavated material in seven roll-off

containers was disposed of as hazardous waste. The landfill material in the remaining roll-off containers was transported to the WSMR sanitary landfill for disposal.

5.2.2.4 Conclusions

Lead-contaminated soil was excavated from SWMU 163 (WSMR-72). Waste characterization analyses were performed on the excavated material. The analytical results were used to determine the proper disposition of the material; the material in seven roll-off containers required disposal as hazardous waste (Section 3, ASI, 1994b).

Confirmatory soil sampling results indicated that the maximum lead concentration was 53 mg/kg, which is less than the NMED residential SSL. None of the confirmatory sampling results exceed the corresponding NMED residential SSLs for metals, PCBs, pesticides, chlorinated herbicides, VOCs, or SVOCs. In fact, none of the organic compound results were detected above detection limits.

5.3 SWMU 163 Site Conceptual Model

5.3.1 Nature and Extent of Contamination

Soil sampling indicated the presence of metals in the soil at SWMU 163 (WSMR-72), but all results were below the NMED residential SSLs. The initial investigative sampling results determined that the maximum lead concentration of 16,200 mg/kg exceeded the NMED residential SSL of 400 mg/kg. The only COC is lead, and its source is unknown, except to attribute it to past activities at the former landfill. A VCA was performed to address the high lead concentrations.

Collection and analysis of post-excavation confirmatory soil samples indicate that the VCA successfully removed the source of contamination. The maximum lead concentration in the confirmatory soil samples was 53 mg/kg, lower than the NMED residential SSL and significantly less than the initial maximum concentration of 16,200 mg/kg (Table 5-1). No other COCs exceeded NMED residential SSLs, either before or after the VCA (Table 5-1). Confirmatory soil samples were collected from the trench sidewalls and floor and were sufficient to determine both the horizontal and vertical extent of contamination.

SWMU 163 (WSMR-72) and the surrounding area is actively used on a daily basis because it is the location of the WSMR commissary. The former trench area is now partially covered by asphalt. The source of contamination has been removed.

5.3.2 Environmental Fate and Transport

The primary release of lead into the environment at SWMU 163 (WSMR-72) was to soil within the abandoned landfill. Wind and water are natural mechanisms for COC transport from the source; however, these are not considered to be of potential significance because 1) the source

has been removed; 2) the source area prior to the VCA was not covered by asphalt and is now partially covered by asphalt, and 3) the evaporation rate is higher than the infiltration rate. Depth to groundwater is at least 300 feet bgs (Cruz, 1983), and the potential for COCs to reach groundwater via the unsaturated zone above the water table is low.

5.4 SWMU 163 Site Assessments

5.4.1 Screening Assessments

The removal action performed at SWMU 163 (WSMR-72), the Commissary Landfill Trench, was protective of human health and the environment and met applicable or relevant federal and State of New Mexico requirements.

5.4.2 Risk Assessments

No human health or ecological risk assessments were performed for SWMU 163 (WSMR-72) because none of the inorganic or organic constituents exceeded the NMED residential SSLs after the VCA.

5.4.3 Other Applicable Assessments

No other site assessments were performed.

5.5 Recommendation for Corrective Action Complete without Controls for SWMU 163

5.5.1 Rationale

On the basis of the investigation and the VCA performed at SWMU 163 (WSMR-72), which eliminated the potential for exposure to human health and the environment, a determination of CAC without controls is recommended for the following reasons:

- Landfill material has been excavated, removed, and properly disposed.
- Based on the results of confirmation soil sampling, no COCs are present at the site in concentrations that exceed the NMED residential SSLs.
- The confirmation soil sampling results are below NMED residential SSLs.
- No COCs are present at concentrations that are hazardous to human health or the environment.
- The current land use is industrial and will remain industrial for the foreseeable future.

Furthermore, on February 16, 1995, WSMR received a letter from the NMED Groundwater Protection and Remediation Bureau (NMED, 1995), provided in Appendix D-3, approving the VCA at SWMU 163 that stated the following:

The Ground Water Protection and Remediation Bureau of the New Mexico Environment Department is in receipt of the Commissary Landfill Trench Sampling Report dated October 24, 1994, and the Commissary Landfill Trench Excavation Material Sampling Report dated December 1, 1994. These Reports are hereby approved pursuant to Section 1-203 of the New Mexico Water Quality Control Commission regulations.

5.5.2 Criterion

The evidence provided in Section 5.5.1 supports the recommendation for a change in status from corrective action required to CAC without controls for SWMU 163 (WSMR-72). This is consistent with the NMED No Further Action Criterion 5, which states, "the SWMU/AOC [Area of Concern] has been characterized or remediated in accordance with current applicable state or federal regulations and the available data indicate that contaminants pose an acceptable level of risk under current and projected land use" (NMED, 1998b).

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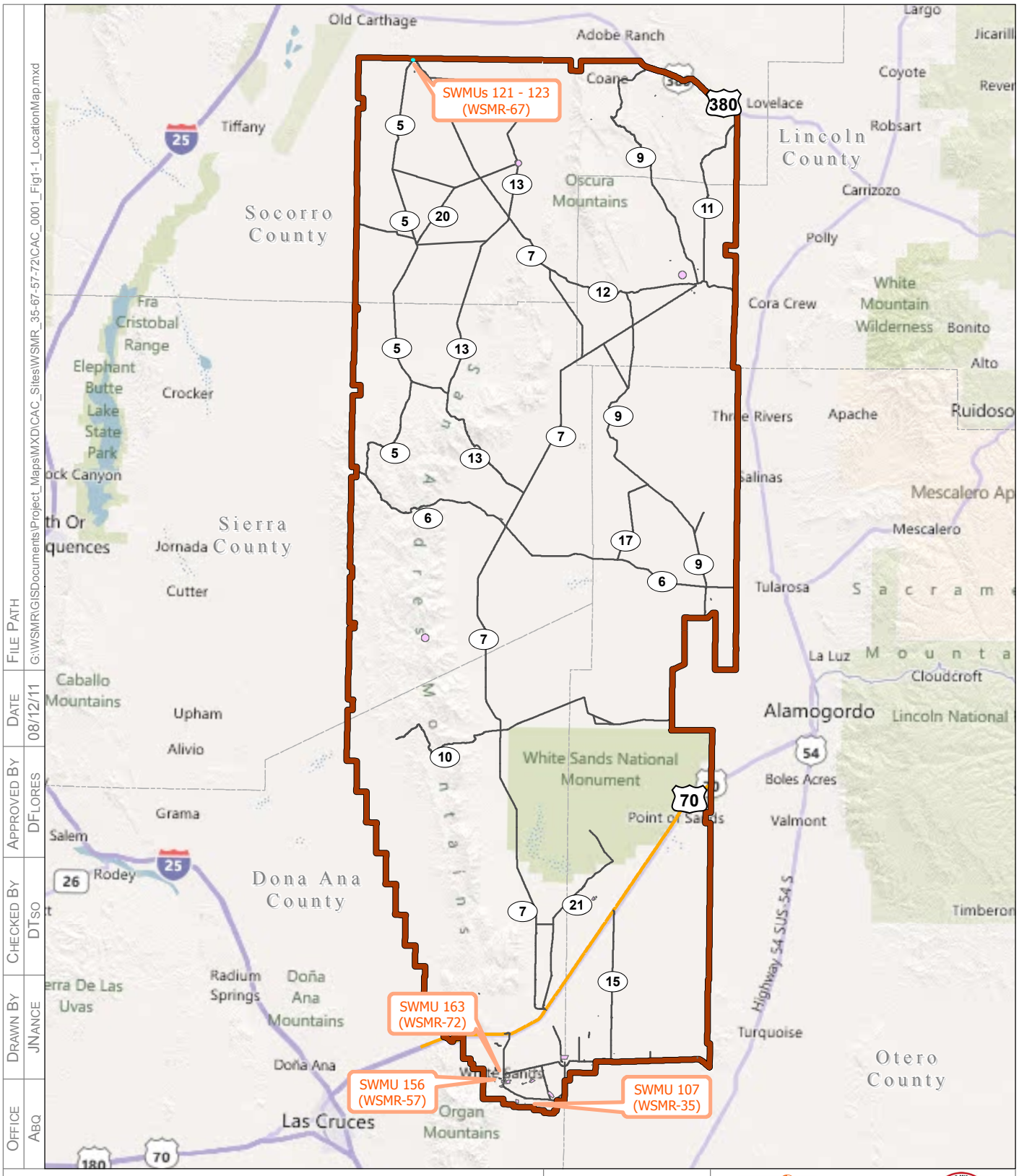
WTS, see White Sands Technical Services.

Figures



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Checked By	DTSO
Drawn By	JNANCE
Office	ABQ

LEGEND

- WSMR Installation
- SWMU 107 (WSMR-35) — Site Location
- 25 — Interstate Highway
- 7 — WSMR Route
- 70 — US Highway

NOTES

SWMU = Solid Waste Management Unit

WSMR = White Sands Missile Range

0 5 10 Miles

0 5 10 20 Kilometers

N

WGS 84 UTM Zone 13N Meters

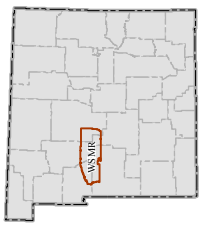

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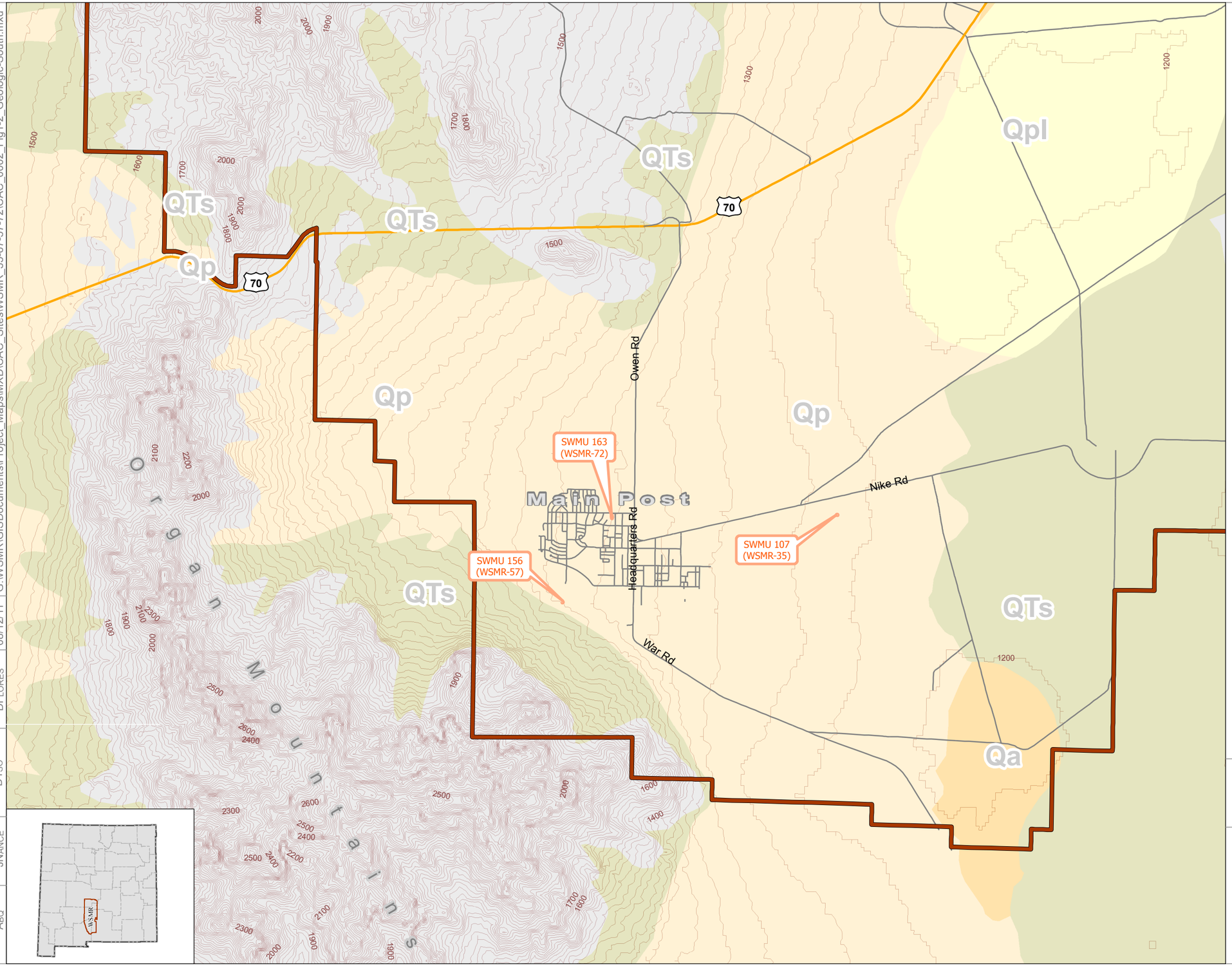
FIGURE 1-1

LOCATION MAP OF
SWMU 107 (WSMR-35),
SWMUs 121 - 123 (WSMR-67),
SWMU 156 (WSMR-57),
AND SWMU 163 (WSMR-72)
PETITION FOR CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM



L E G E N D

- WSMR Installation
- US Highway
- Other Roads
- Elevation Contours
- SWMU 107 (WSMR-35) Site Location
- Consolidated Units
- Qa
- Qp
- Qpl
- QTs

N O T E S

Qa = Alluvium; upper and middle Quaternary

Qp = Piedmont alluvial deposits; upper and middle Quaternary; includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the Piedmont slope, and alluvial fan

Qpl = Lacustrine and playa-lake deposits; includes associated alluvial and eolian deposits of major lake basins; upper Quaternary

QTs = Upper Santa Fe Group. Includes Camp Rice, Fort Hancock, Palomas, Sierra Ladrones, Ancho, Puye, and Alamosa formations; middle Pleistocene to uppermost Miocene

SWMU = Solid Waste Management Unit

WSMR = White Sands Missile Range

0 1 2 Miles

0 1 2 4 Kilometers

N

WGS 84 UTM ZONE 13N METERS

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FIGURE 1-2

WSMR MAIN POST
GEOLOGIC MAP
SWMU 107 (WSMR-35),
SWMU 156 (WSMR-57),
and SWMU 163 (WSMR-72)
PETITION FOR CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	FILE PATH
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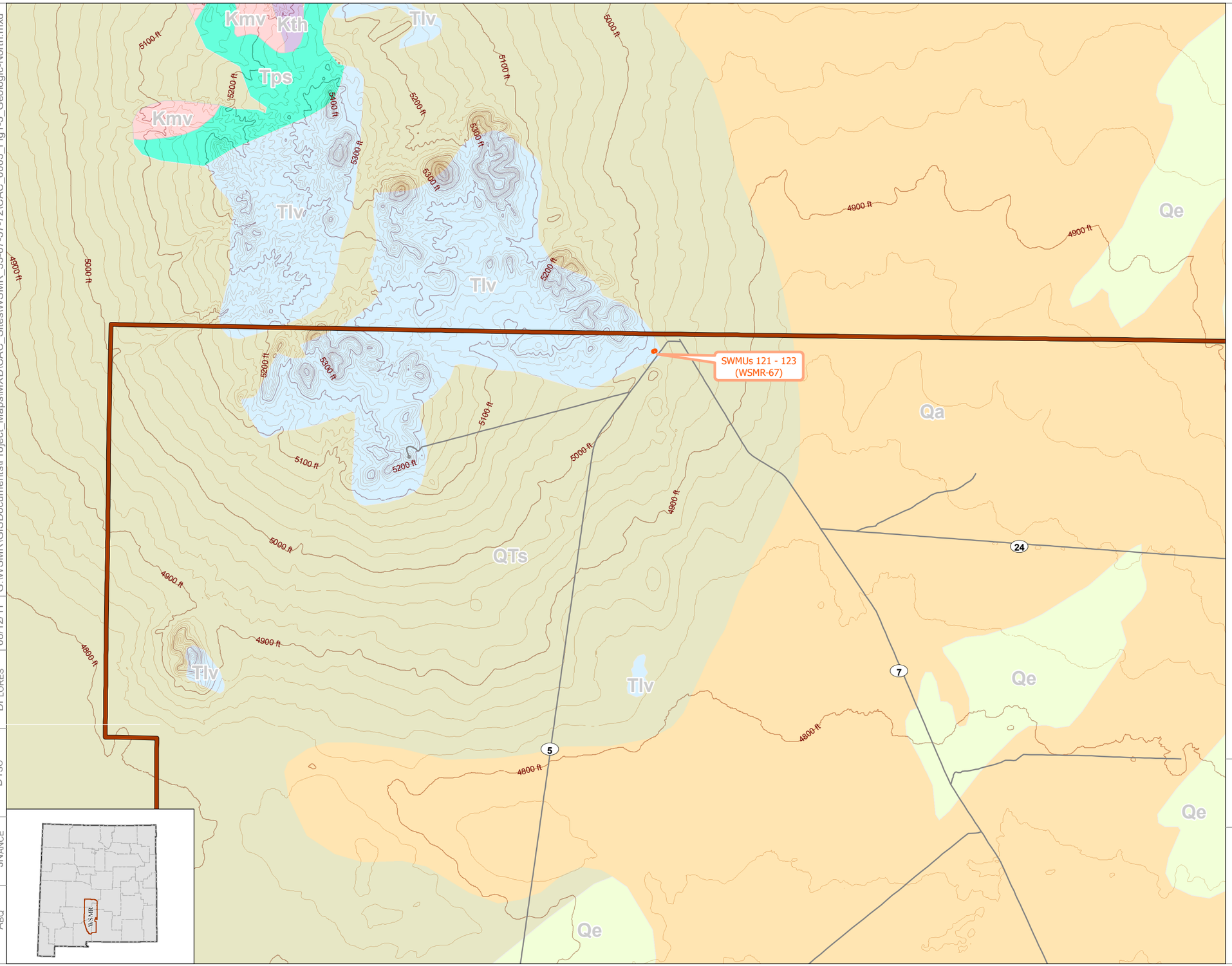

L E G E N D

- WSMR Installation
- WSMR Roads
- Other Roads
- Elevation Contours
- SWMU 121 (WSMR-67) Site Location
- Kth
- Qe
- Qa
- QTs
- Tlv
- Tps
- Kmv

N O T E S

Tps = Paleogene sedimentary units; includes Baca, Galisteo, El Rito, Blanco Basin, Love Ranch, Lobo, Sander Canyon, Shunk Ranch, Timberlake, and Cub Mountain Formations

Tlv = Lower Oligocene and Eocene volcanic rocks, undifferentiated; dominantly intermediate composition, with interbedded volcaniclastic rocks; (31 - 44 Ma)

Kmv = Mesaverde Group includes the Gallup Sandstone, Crevasse Canyon Formation, Point Lookout Sandstone, Menefee Formation, and Cliff House Sandstone

Kth = Tres Hermanos Formation; formerly designated as Lower Gallup Sandstone in the Zuni Basin; Turonian

Kdr = Dakota Sandstone and Rio Salado Tongue of the Mancos Shale. In northwest Socorro County locally includes overlying Tres Hermanos Formation

Qa = Alluvium; upper and middle Quaternary

Qe = Eolian deposits

Qp = Piedmont alluvial deposits; upper and middle Quaternary; includes deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans

QTs = Upper Santa Fe Group. Includes Camp Rice, Fort Hancock, Palomas, Sierra Ladrones, Ancho, Puye, and Alamosa Formations; middle Pleistocene to uppermost Miocene

SWMU = Solid Waste Management Unit

WSMR = White Sands Missile Range

0 0.5 1 Miles

0 0.5 1 2 Kilometers

N

WGS 84 UTM ZONE 13N METERS

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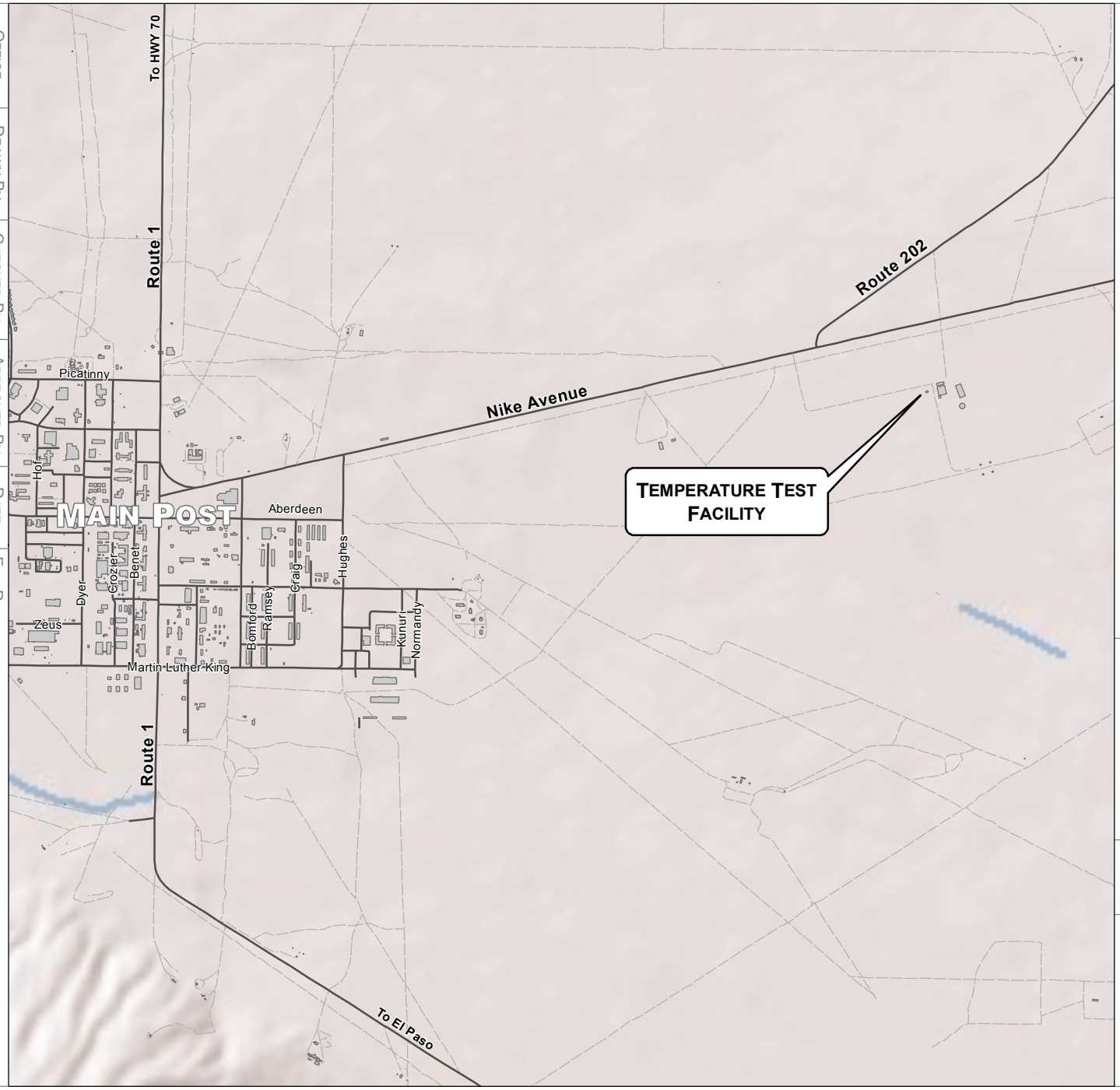
FIGURE 1-3

WSMR STALLION RANGE
GEOLOGIC MAP
SWMUs 121 - 123 (WSMR-67)
PETITION FOR
CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	FILE PATH
ABQ	JNANCE	DTSO	DFLORES	08/12/11	G:\WSMR\GISDocuments\Project_Maps\MXD\CAC_Sites\WSMR_35-67-57-72\CAC_0003_Fig1-3_Geologic-North.mxd



LEGEND

MAJOR ROAD

ARTERIAL ROADS

STRUCTURES

0 0.2 0.4 0.8
Kilometers

0 0.125 0.25 0.5
Miles

N

WGS 84 UTM ZONE 13N METERS

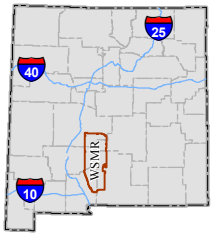


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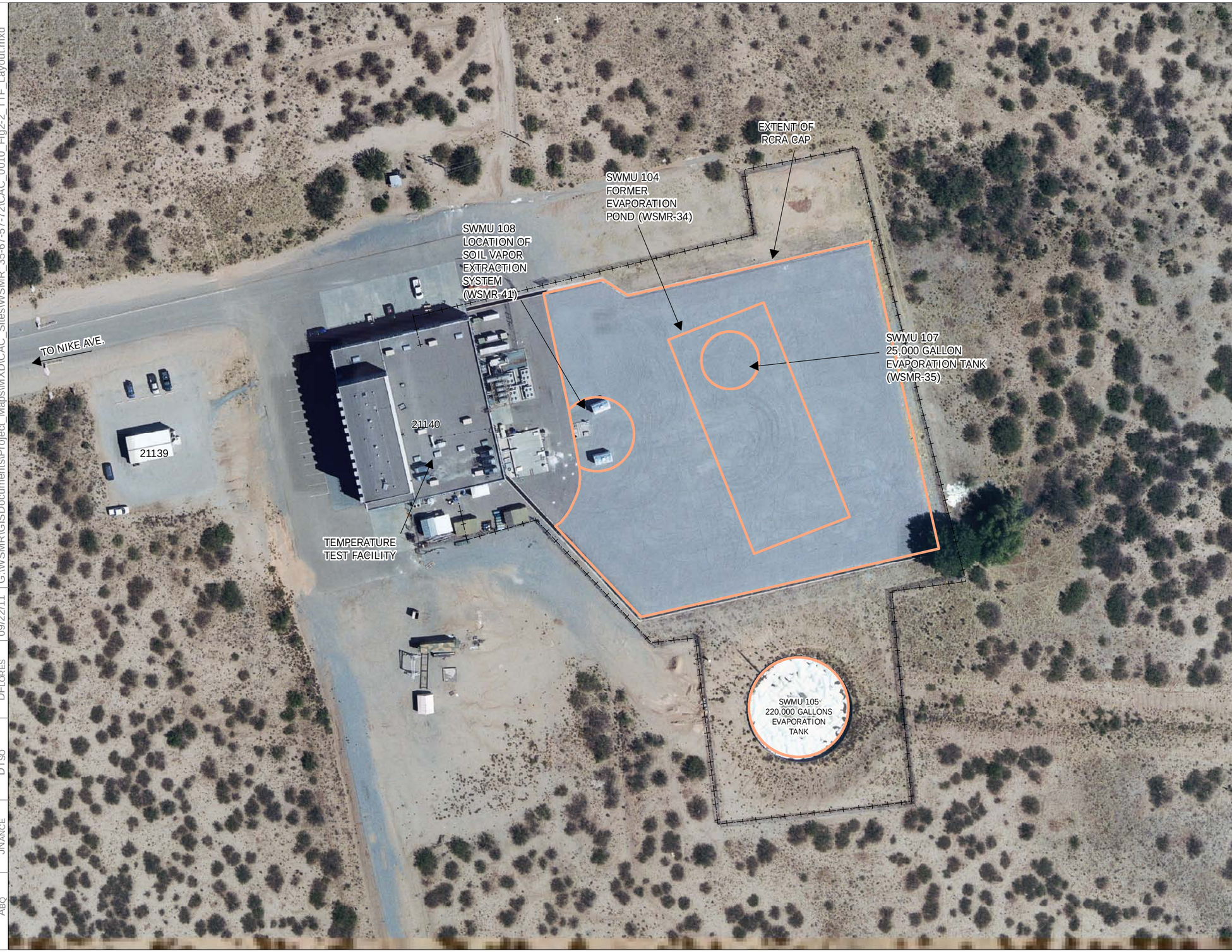
FIGURE 2-1

TEMPERATURE TEST FACILITY LOCATION
SWMU 107 (WSMR-35)
PETITION FOR
CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	FILE PATH
HOU	BGROD	SSURYANARAYANA	SMATLAPUDI	09/26/11	G:\WSMR\GIS\Documents\Project_Maps\MXD\WSMR_35\CAC\WSMR_35_0002_Fig2-1_TempTestFacility.mxd



L E G E N D

- SWMU Boundary
- WSMR Installation
- WSMR Roads
- Fence

N O T E S

RCRA = Resource Conservation and Recovery Act

SWMU = Solid Waste Management Unit

WSMR = White Sands Missile Range

0 50 100 Feet

0 10 20 40 Meters

N

WGS 84 UTM ZONE 13N METERS

Shaw

FIGURE 2-2

TEMPERATURE TEST FACILITY LAYOUT
SWMU 107 (WSMR-35)
PETITION FOR
CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

Office	Drawn By	Checked By	Approved By	Date	File Path
ABQ	JNance	DTso	DFlores	09/22/11	G:\WSMR\GIS\Documents\Project_Maps\MXD\CAC_Sites\WSMR_35-67-72\CAC_0010_Fig2-2_TTF_Layout.mxd

Office	Drawn By	Checked By	Approved By	Date	File Path
Hou	BGrod	DTso	Initial	08/15/11	G:\WSMR\GISDocuments\Project_Maps\MXD\CAC_Sites\WSMR_35-67-57-72\CAC_0004_Fig3-1_StallionAsphaltTanks.mxd

LEGEND

WSMR Installation

SWMUs 121 - 123 (WSMR-67)

0 25 50 100 Meters

0 125 250 500 Feet

N

WGS 84 UTM Zone 13N Meters

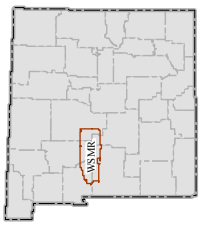


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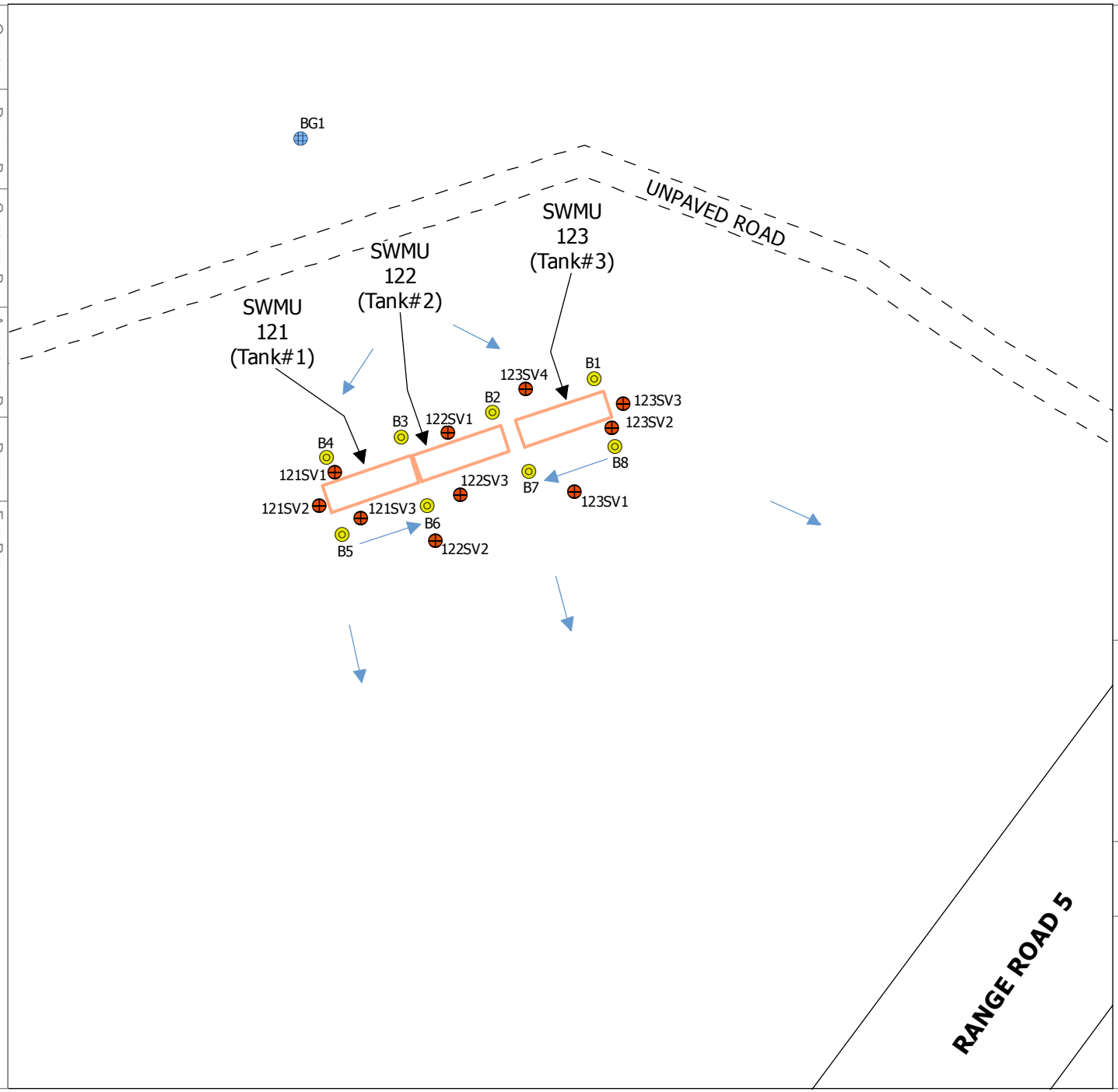
Figure 3-1

Site Location
Asphalt Tanks at
Stallion Range
SWMUs 121 - 123 (WSMR-67)
Petition for
Corrective Action Complete
White Sands Missile Range, NM



LEGEND

- SWMUs 121-123 (WSMR-67)
- SURFACE RUNOFF DIRECTION
- BACKGROUND SOIL BORING LOCATION
- SOIL BORING LOCATION
- SOIL VAPOR SURVEY LOCATION

0 2.5 5 10
Meters

0 12.5 25 50
Feet

N

WGS 84 UTM ZONE 13N METERS

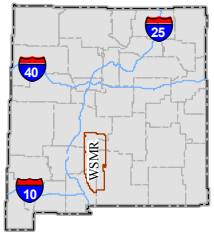


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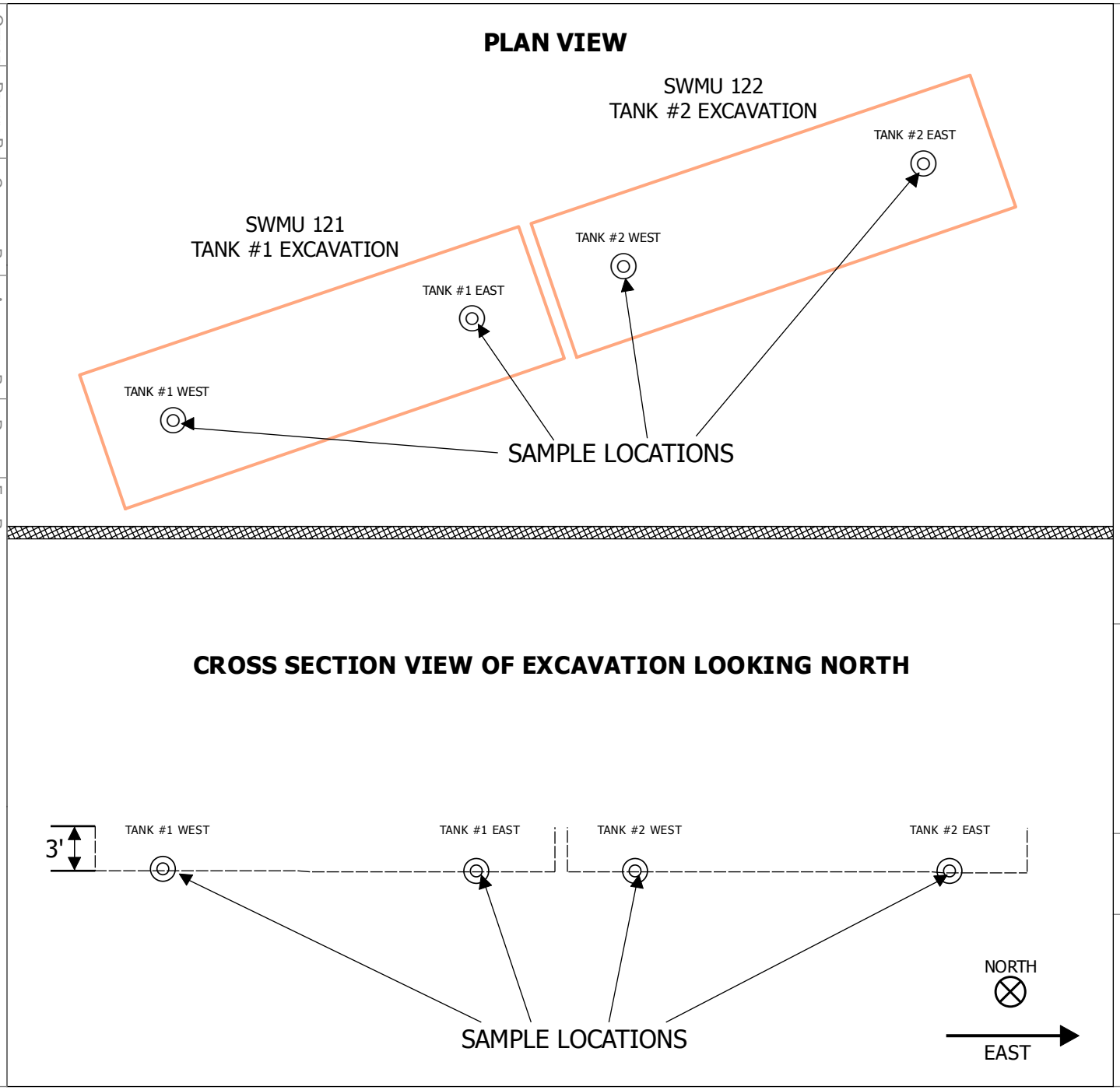
FIGURE 3-2

SOIL SAMPLE LOCATIONS
SWMUs 121 - 123 (WSMR-67)
PETITION FOR
CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	FILE PATH
HOU	BGROD	SSURYANARAYANA	INITIAL	08/15/11	G:\WSMR\GIS Documents\Project_Maps\MXD\CAC_Sites\WSMR_35-67-57-72\CAC_0008_Fig3-2_Stallion-SampleLocs.mxd



LEGEND

SAMPLE LOCATION

SWMU 121 - 123 (WSMR-67)

NOTE:

SWMU = Solid Waste Management Unit

WSMR = White Sands Missile Range

SWMU areas are footprint of former asphalt tanks

0 1 2 4 Meters

0 2.5 5 10 Feet

N

WGS-84 UTM ZONE 13N METERS

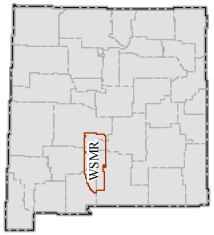


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FIGURE 3-3

CONFIRMATION
SOIL SAMPLING LOCATIONS
SWMUS 121 - 123 (WSMR-67)
PETITION FOR
CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	FILE PATH
HOU	BGROD	DTSO	INITIAL	08/15/11	G:\WSMR\GIS\Documents\Project_Maps\MXD\CAC_Sites\WSMR_35-67-57-72\CAC_0009_Fig3-3_ConfirmSampleLocs.mxd

LEGEND

SWMU 156 (WSMR-57) — SWMU Location

0 62.5 125 250 Meters

0 250 500 1,000 Feet

N

Wgs 84 Utm Zone 13N Meters

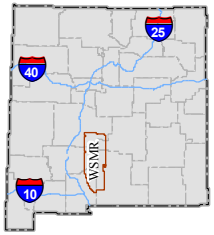

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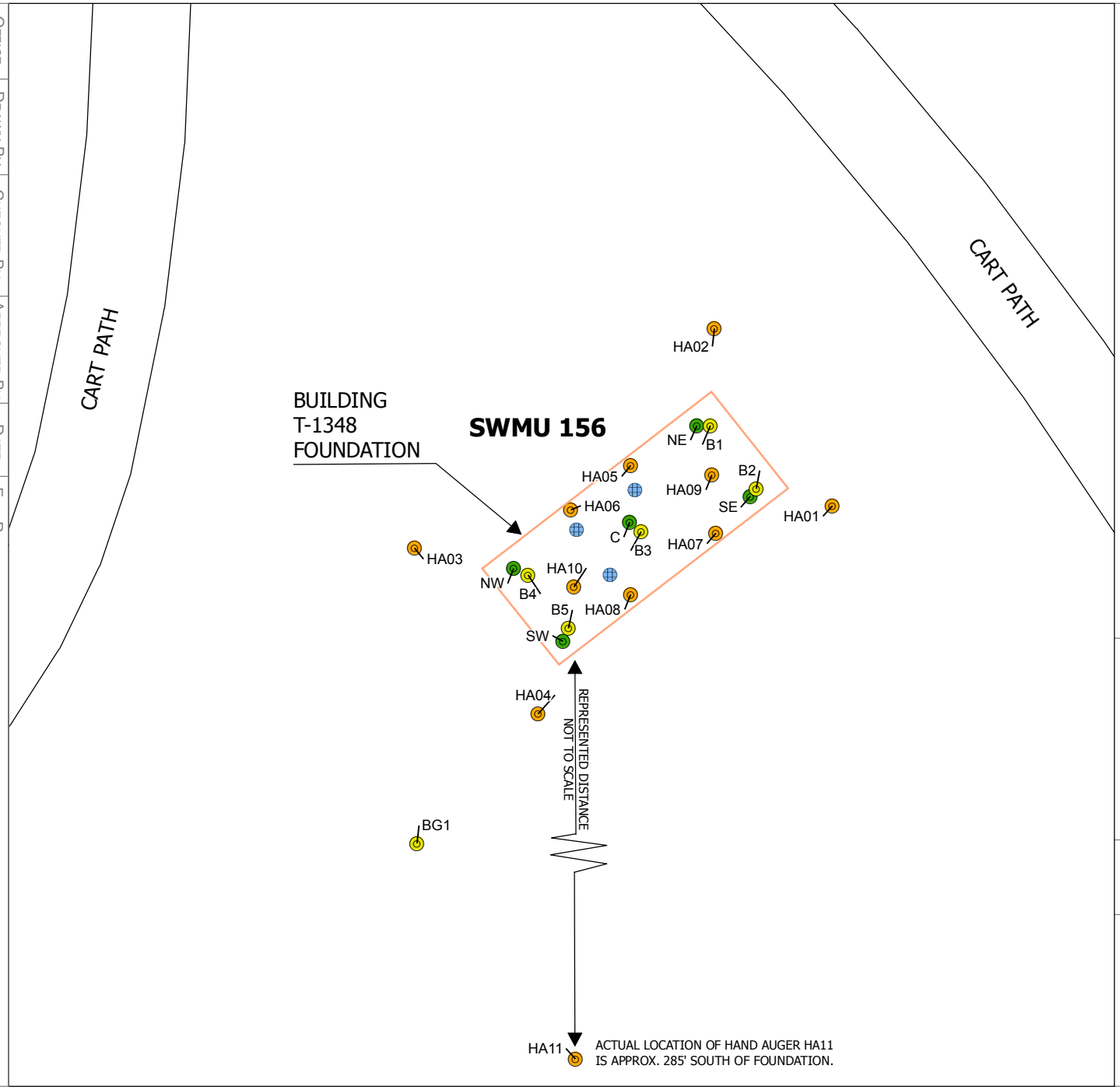
Figure 4-1

Site Location
Pesticide Storage Shed
SWMU 156 (WSMR-57)
Petition for
Corrective Action Complete
White Sands Missile Range, NM

Office	Drawn By	Checked By	Approved By	Date	File Path
Hou	BGRod	SSuryanarayana	Initial	08/15/11	G:\WSMR\GIS\Documents\Project_Maps\MXD\CAC_Sites\WSMR_35-67-57-72\CAC_0006_Fig4-1_StorageShedGolfCourse.mxd

Figure 4-2
Current View of the Former Pesticide Storage Shed at Main Post Golf Course, SWMU 156 (WSMR-57), Petition for Corrective Action Complete, White Sands Missile Range, NM



LEGEND

- SWMU 156 (WSMR-57)
- CONFIRMATION SAMPLE LOCATION
- PHASE I RFI SOIL SAMPLE LOCATION
- PHASE II RFI SOIL SAMPLE LOCATION
- PRE-EXCAVATION / WASTE CHARACTERIZATION SAMPLE LOCATIONS

NOTE

Confirmation sample locations were not labeled in the original report; Pre-Excavation/Waste characterization samples are approximated based on historical map schematic. Coordinates were not provided in original report.

0 1.5 3 6 Meters

0 12.5 25 Feet

N

WGS 84 UTM ZONE 13N METERS

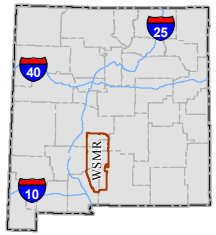


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FIGURE 4-3

SOIL SAMPLE LOCATIONS
SWMU 156 (WSMR-57)
PETITION FOR
CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	FILE PATH
HOU	BGROD	SSURYANARAYANA	INITIAL	08/26/11	G:\WSMR\GIS\Documents\Project_Maps\MXD\CAC_Sites\WSMR_35-67-57-72\CAC_0007_Fig4-3_SoilSamples.mxd

LEGEND

- SAMPLE LOCATION
- COMMISSARY LANDFIILL TRENCH
- FENCE
- CONSTRUCTION AREA
- DECONTAMINATION AREA
- ROLL-OFF BINS TEMPORARY STORAGE AREA

NOTES

Sample location is approximate.
SWMU = Solid Waste Management Unit
WSMR = White Sands Missile Range

0 10 20 40
Meters

0 37.5 75 150
Feet

N

WGS 84 UTM ZONE 13N
METERS

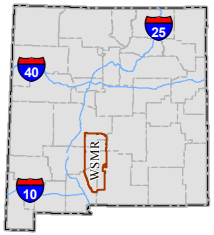

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FIGURE 5-1

SITE PLAN
SWMU 163 (WSMR-72)
PETITION FOR
CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DATE	FILE PATH
HOU	BGROD	SSURYANARAYANA	SMATLAPUDI	02/17/12	G:\WSMR\GIS\Documents\Project_Maps\MXD\CAC_Sites\WSMR_35-67-67-72\CAC_0005_Fig5-1_Commsry-SitePlan.mxd

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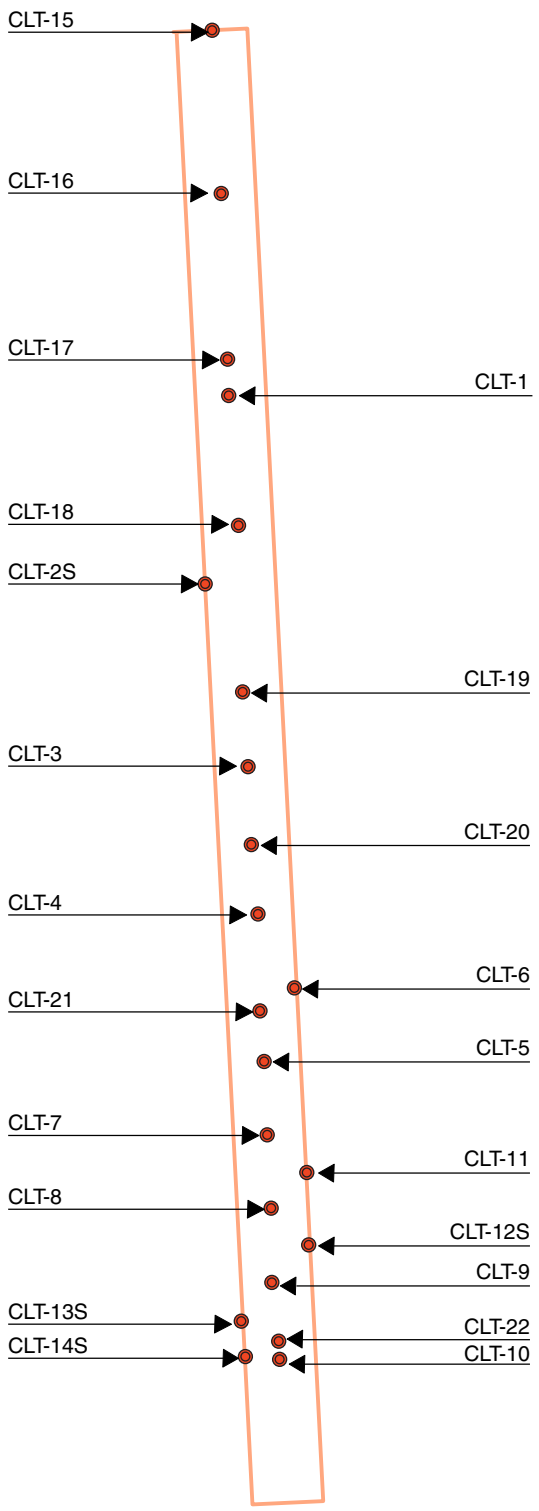

LEGEND

COMMISSARY LANDFILL TRENCH EXCAVATION BOUNDARY

POST EXCAVATION SAMPLE LOCATION

NOTE:
TRENCH DIMENSIONS AND SAMPLE LOCATIONS ARE APPROXIMATE

N

WGS 84 UTM ZONE 13N
METERS

0 12.5 25 Feet

0 4 8 Meters

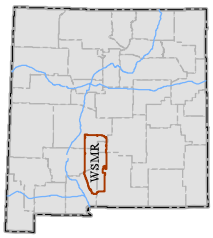

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FIGURE 5-2
CONFIRMATION SAMPLING LOCATIONS
SWMU 163 (WSMR-72)
PETITION FOR CORRECTIVE ACTION COMPLETE
WHITE SANDS MISSILE RANGE, NM

Tables

Table 2-1
Tank Rinsate Sampling Results for Tank Disposition by EPA Method 8021[a], Tank Closure[b]
SWMU 107 (WSMR-35) Thermal Treatment Facility Evaporation Tank
White Sands Missile Range, NM

Sample Number[c]	Sample Date	Methylene Chloride (mg/L)	Tetrachloroethene (mg/L)	1,1,1 - Trichloroethane (mg/L)	1,1,2 - Trichloroethane (mg/L)	Trichloroethene (mg/L)	Toluene (mg/L)
Detection Limit		1	1	1	1	1	1
Regulatory Limit[d]		NE	0.7	NE	NE	0.5	NE
1	5/23/1990	ND	ND	ND	ND	ND	ND
2	5/23/1990	ND	ND	ND	ND	ND	ND
3	5/23/1990	ND	ND	ND	ND	ND	ND
4	5/23/1990	ND	ND	ND	ND	ND	3.8 [c]

[a] Test Methods for Evaluating Solid Waste, Second Edition, Office of Solid Waste Manual SW-846.

[b] Rinchem Company, Inc., 1990, Final Report, U.S. Army Corps of Engineers, White Sands Missile Range, New Mexico, Temperature Test Facility Closure Plan, Tank Cleaning Subcontract, Work Dates: May 22-25, 1990, June 1, 1990.

[c] Samples 1, 2, and 3 were collected after the third wash/rinse cycle at Tanks 1, 2, and 3. Sample 4 was collected from Tank 4 after the first wash/rinse cycle.

[d] 40 Code of Federal Regulations Part 261.24, Table 1 "Maximum Concentration of Contaminants for the Toxicity Characteristic."

EPA = U.S. Environmental Protection Agency.
mg/L = Milligrams per liter.
ND = Not detected.
NE = Not established.
SWMU = Solid Waste Management Unit.
WSMR = White Sands Missile Range.

Table 3-1
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase I RFI[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

					Analytical Suite and EPA Method Number[b]									
Sample Name	Lab	Lab Work Order Number	Date Sampled	Sample Type	Total Metals (6010)	Total Mercury (7471)	Total Selenium (7740 GF)	Sulfides (9030)	Total Cyanide (9010)	VOCs (8240)	SVOCs (8270)	PCBs and Organochlorine Pesticides (8080)	Organophosphorus Pesticides (8140)	Chlorinated Herbicides (8150)
121BG1SO00	IT	B2-02-124	2/11/1992	Background soil	X	X	X	X	X	X	X	X	X	X[c]
121-123BGSO00RS	IT	B2-02-162	4/17/1992	Resample										X
121BG1SO02	IT	B2-02-124	2/11/1992	Background soil	X	X	X	X	X	X	X	X	X	X[c]
121-123BGSO02RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121BG1SO02B	IT	B2-02-124	2/11/1992	Triplicate	X	X	X	X	X	X	X	X	X	X[c]
121-123BGSO02BRS	IT	B2-04-162	4/17/1992	Resample										X[d]
121BG1SO05	IT	B2-02-124	2/11/1992	Background soil	X	X	X	X	X	X	X	X	X	X[c]
121-123BGSO05RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121BG1SO10	IT	B2-02-124	2/11/1992	Background soil	X	X	X	X	X	X	X	X	X	X[c]
121-123BGSO10RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B1SO00	IT	B2-02-124	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B1SO00RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B1SO02	IT	B2-02-125	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B1SO02RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121-123B1SO02BRS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B1SO05	IT	B2-02-125	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B1SO05RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B1SO10	IT	B2-02-125	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B1SO10RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121-123B1SO10BRS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B2SO00	IT	B2-02-125	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B2SO00RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B2SO02	IT	B2-02-125	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B2SO02RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121-123B2SO02BRS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B2SO05	IT	B2-02-125	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]

Table 3-1 (Continued)
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase I RFI[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

Sample Name	Lab	Lab Work Order Number	Date Sampled	Sample Type	Analytical Suite and EPA Method Number[b]									
					Total Metals (6010)	Total Mercury (7471)	Total Selenium (7740 GF)	Sulfides (9030)	Total Cyanide (9010)	VOCs (8240)	SVOCs (8270)	PCBs and Organochlorine Pesticides (8080)	Organophosphorus Pesticides (8140)	Chlorinated Herbicides (8150)
121-123B2SO05RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B2SO10	IT	B2-02-126	2/11/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B2SO10RS	IT	B2-04-162	4/17/1992	Resample										X[d]
121B3SO00	IT	B2-02-126	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B3SO00RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121B3SO02	IT	B2-02-126	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B3SO02RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121B3SO05	IT	B2-02-126	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B3SO05RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121-123B3SO05B	IT	B2-02-126	2/12/1992	Triplicate	X	X	X	X	X	X	X	X	X	X[c]
121B3SO10	IT	B2-02-126	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B3SO10RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121B4SO00	IT	B2-02-152	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B4SO00RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121B4SO02	IT	B2-02-152	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B4SO02RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121B4SO05	IT	B2-02-152	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B4SO05RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121B4SO10	IT	B2-02-152	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B4SO10RS	IT	B2-04-162	4/18/1992	Resample										X[d]
121B5SO00	IT	B2-02-152	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B5SO00RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B5SO02	IT	B2-02-152	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B5SO02RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B5SO05	IT	B2-02-152	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B5SO05RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]

Table 3-1 (Continued)
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase I RFI[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

Sample Name	Lab	Lab Work Order Number	Date Sampled	Sample Type	Analytical Suite and EPA Method Number[b]									
					Total Metals (6010)	Total Mercury (7471)	Total Selenium (7740 GF)	Sulfides (9030)	Total Cyanide (9010)	VOCs (8240)	SVOCs (8270)	PCBs and Organochlorine Pesticides (8080)	Organophosphorus Pesticides (8140)	Chlorinated Herbicides (8150)
121B5SO10	IT	B2-02-153	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B5SO10RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B6SO00	IT	B2-02-153	2/12/1992	Subsurface soil	X	X	X	X	X	X	X[e]	X	X	X[c]
121B6SO00RS	IT	B2-03-088	3/8/1992	Resample						X		X		
121-123B6SO00RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B6SO02	IT	B2-02-153	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121B6SO02RS	IT	B2-03-088	3/8/1992	Resample						X		X		
121-123B6SO02RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B6SO05	IT	B2-02-153	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121B6SO05RS	IT	B2-03-088	3/8/1992	Resample						X		X		
121-123B6SO05RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B6SO05B	IT	B2-02-153	2/12/1992	Triplicate	X	X	X	X	X	X	X	X	X	X[c]
121B6SO10	IT	B2-02-153	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121B6SO10RS	IT	B2-03-088	3/8/1992	Resample						X		X		
121-123B6SO10RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B7SO00	IT	B2-02-153	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121B7SO00RS	IT	B2-03-088	3/8/1992	Resample						X		X		
121-123B7SO00RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B7SO02	IT	B2-02-154	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B7SO02RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B7SO05	IT	B2-02-154	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B7SO05RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B7SO10	IT	B2-02-154	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B7SO10RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B8SO00	IT	B2-02-154	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B8SO00RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]

Table 3-1 (Continued)
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase I RFI[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

Sample Name	Lab	Lab Work Order Number	Date Sampled	Sample Type	Analytical Suite and EPA Method Number[b]									
					Total Metals (6010)	Total Mercury (7471)	Total Selenium (7740 GF)	Sulfides (9030)	Total Cyanide (9010)	VOCs (8240)	SVOCs (8270)	PCBs and Organochlorine Pesticides (8080)	Organophosphorus Pesticides (8140)	Chlorinated Herbicides (8150)
121B8SO02	IT	B2-02-154	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B8SO02RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B8SO05	IT	B2-02-154	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B8SO05RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B8SO10	IT	B2-02-154	2/12/1992	Subsurface soil	X	X	X	X	X	X	X	X	X	X[c]
121-123B8SO10RS	IT	B2-04-169	4/18/1992	Resample								X		X[d]
121B8SO10B	IT	B2-02-155	2/12/1992	Triplicate	X	X	X	X	X	X	X	X	X	X
Trip Blank[f]	IT	B2-02-155	2/3/1992	Trip Blank						X				

[a] Table is modified from Table 3.1 and Appendix A of the "Final RCRA Facility Investigation Report, Appendix II, III, and IV Sites, White Sands Missile Range, New Mexico, Volume I," December 1992, by IT Corporation for the U.S. Army Corps of Engineers, Huntsville, Alabama, Contract No. DACA 87¬90-D-0015, Delivery Order 002, Project No. 42-1671.
[b] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.
[c] Sample was analyzed for an abbreviated list of herbicides by U.S. EPA Method 8150; the Phase I RFI does not specify the abbreviated list.
[d] Re-sampling was performed as these samples were analyzed for the complete list of herbicides by U.S. EPA Method 8150.
[e] Sample exhibited surrogate recoveries that were not within laboratory control limits due to matrix interference.
[f] Trip blanks were prepared in the laboratory and accompanied sample bottles and samples during shipment.

B = In the sample number, the B located near the end of the sample name indicates a triplicate sample.
B3 = In the sample number, when the B is followed by a number, it indicates the borehole number. In this case, B3 is Borehole 3.
BG = In the sample number, the BG indicates a background sample.
bgs = Below ground surface.
BHC = Benzene hexachloride.
DDE = (1,1-bis(chlorophenyl)-2,2-dichloroethene).
DDT = (1,1-bis(chlorophenyl)-2,2,2-trichloroethane).
EPA = U.S. Environmental Protection Agency
ft = Foot (feet).
GF = Analyses performed using graphite furnace.
IT = International Technology Analytical Services, Austin, Texas.
mg/kg = Milligrams per kilogram.
NA = Not applicable.
ND = Not detected.
NM = New Mexico.
NT = Not tested.
PCB = Polychlorinated biphenyl.
RCRA = Resource Conservation and Recovery Act.
RFI = RCRA Facility Investigation.
RS = Resample.
SO = Soil sample.
SSL = Soil screening level.
SVOC = Semivolatile organic compound.
SWMU = Solid Waste Management Unit.
TCLP = Toxicity Characteristic Leaching Procedure.
TPH = Total petroleum hydrocarbons.
VOC = Volatile organic compound.
WSMR = White Sands Missile Range.
X = Indicates the analyses performed for the samples.
Grey = Grey shading indicates the detection of at least one analyte. Sample result(s) is listed in Table 3-3.

Table 3-2
Soil Vapor Sampling Results, Phase I RFI[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

Sample Number	Run	Methane (g/m^3)		Carbon dioxide (g/m^3)		Run	Chloroform (mg/m^3)		1,1,1-TCA (mg/m^3)		Benzene (mg/m^3)		TCE (mg/m^3)		1,1,2-TCA (mg/m^3)		PCE (mg/m^3)	
		Result	DL	Result	DL		Result	DL	Result	DL	Result	DL	Result	DL	Result	DL	Result	DL
121SV1	200	ND	0.02	13	NP	126	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
121SV2	201	ND	0.02	3.2	NP	127	ND	5	25	6	ND	3	ND	5	ND	6	ND	7
121SV3	202	ND	0.02	2.9	NP	128	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
122SV1	199	ND	0.02	6.1	NP	125	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
122SV2	203	ND	0.02	3.0	NP	129	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
122SV3	206	ND	0.02	1.4	NP	134	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
123SV2	204	ND	0.02	2.9	NP	131	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
123SV1	205	ND	0.02	1.8	NP	133	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
123SV3	197	ND	0.02	2.4	NP	123	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7
123SV4	198	ND	0.02	3.6	NP	124	ND	5	ND	6	ND	3	ND	5	ND	6	ND	7

Note: The dates of soil vapor sampling at SWMUs 121-123 were not specified in the "Soil Vapor Survey Report" or in the Phase I RFI Report. A records search did not locate the original data. Based upon calibration runs, sampling was likely to have occurred on February 18, 1992.

[a] Table is modified from Table 3.8 of the "Final RCRA Facility Investigation Report, Appendix II, III, and IV Sites, White Sands Missile Range, New Mexico, Volume I," December 1992, by IT Corporation for the U.S. Army Corps of Engineers, Huntsville, Alabama, Contract No. DACA 87-90-D-0015, Delivery Order 002, Project No. 42-1671.

DL = Detection limit.
g/m^3 = Grams per cubic meter.
mg/m^3 = Milligrams per cubic meter.
ND = Not detected.
NP = Not provided: the data were not provided in the original report and could not be located in the archives.
PCE = Tetrachloroethylene.
RCRA = Resource Conservation and Recovery Act.
RFI = RCRA Facility Investigation.
SV = Soil vapor sample.
SWMU = Solid Waste Management Unit.
TCA = Trichoroethane.
TCE = Trichloroethylene.
WSMR = White Sands Missile Range.

Table 3-3
Soil Sampling Results for the Detected Analytes, Phase I RFI[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

			VOC (EPA Method 8240)[c]	SVOCs (EPA Method 8270)[c]		PCBs and Organochlorine Pesticides (EPA Method 8080)[c]			Total Metals (EPA Method 6010)[c]		Sulfides (EPA Method 9030)[c]	Total Cyanide (EPA Method 9010)[c]
Sample Name[b]	Depth (ft bgs)	Sample Date	Acetone[d] (mg/kg)	Bis (2-ethylhexyl) phthalate (mg/kg)	Di-n-butylphthalate (mg/kg)	Beta-BHC (mg/kg)	4,4'-DDE (mg/kg)	4,4'-DDT (mg/kg)	Barium (mg/kg)	Lead (mg/kg)	Sulfide (mg/kg)	Total Cyanide (mg/kg)
Regulatory Limit[e]			66,600	347	6,110	2.7	14.3	17.2	15,600	400	NA	46.90
Site-Specific Background Soil Samples												
121BG1SO00	0	2/11/1992	ND	ND	ND	ND	ND	ND	58	ND	ND	ND
121BG1SO02	2	2/11/1992	2.7[d]	ND	ND	0.0059	0.022	0.056	63	ND	12	ND
121BG1SO02B	2	2/11/1992	1.6[d]	ND	ND	ND	ND	ND	76	ND	ND	ND
121BG1SO05	5	2/11/1992	0.13	ND	ND	ND	ND	ND	59	ND	8	ND
121BG1SO10	10	2/11/1992	ND	ND	ND	ND	ND	ND	110	ND	ND	ND
Soil Samples Collected from Borehole Locations												
121B1SO00	0	2/11/1992	ND	ND	ND	ND	ND	ND	85	ND	24	ND
121B1SO02	2	2/11/1992	ND	2.7	ND	ND	ND	ND	72	7.3	ND	ND
121B1SO05	5	2/11/1992	2.2	ND	ND	ND	ND	ND	64	ND	ND	ND
121B1SO10	10	2/11/1992	ND	0.71	ND	ND	ND	ND	47	ND	ND	ND
121B2SO00	0	2/11/1992	1.9[f]	ND	ND	ND	ND	ND	79	ND	ND	ND
121B2SO02	2	2/11/1992	24	ND	ND	ND	ND	ND	100	ND	ND	ND
121B2SO05	5	2/11/1992	1.6	ND	ND	ND	ND	ND	89	ND	ND	ND
121B2SO10	10	2/11/1992	0.2[f]	ND	ND	ND	ND	ND	57	4.6	8	ND
121B3SO00	0	2/12/1992	ND	ND	ND	ND	ND	ND	120	7.1	ND	ND
121B3SO02	2	2/12/1992	1.2[g]	ND	ND	ND	ND	ND	110	8.3	ND	0.2
121B3SO05	5	2/12/1992	4.4[f]	1.0	ND	ND	ND	ND	63	5.7	ND	ND
121B3SO05B	5	2/12/1992	1.4	ND	ND	ND	ND	ND	83	7.6	ND	ND
121B3SO10	10	2/12/1992	0.12	ND	ND	ND	ND	ND	30	ND	ND	ND
121B4SO00	0	2/12/1992	3.9[f]	ND	ND	ND	ND	ND	130	5.1	ND	ND
121B4SO02	2	2/12/1992	2.7[f]	ND	ND	ND	0.062	0.066	68	ND	ND	ND
121B4SO05	5	2/12/1992	1.6[e]	0.33	ND	ND	ND	ND	69	6.9	ND	ND
121B4SO10	10	2/12/1992	2.7[f]	ND	ND	ND	ND	ND	170	ND	ND	ND
121B5SO00	0	2/12/1992	1.2[e]	ND	ND	ND	ND	ND	80	7.0	ND	ND
121B5SO02	2	2/12/1992	6.8[f]	ND	ND	ND	ND	ND	110	7.4	ND	ND
121B5SO05	5	2/12/1992	0.67[f]	ND	ND	ND	ND	ND	52	ND	ND	ND
121B5SO10	10	2/12/1992	0.26[f]	ND	ND	ND	ND	ND	140	ND	ND	2.2
121B6SO00	0	2/12/1992	1.7[f]	ND	ND	ND	ND	ND	68	6.7	ND	ND
121B6SO02	2	2/12/1992	3.8[f]	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3-3 (Continued)
Soil Sampling Results for the Detected Analytes, Phase I RFI[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

			VOC (EPA Method 8240)[c]	SVOCs (EPA Method 8270)[c]		PCBs and Organochlorine Pesticides (EPA Method 8080)[c]			Total Metals (EPA Method 6010)[c]		Sulfides (EPA Method 9030)[c]	Total Cyanide (EPA Method 9010)[c]
Sample Name[b]	Depth (ft bgs)	Sample Date	Acetone[d] (mg/kg)	Bis (2-ethylhexyl) phthalate (mg/kg)	Di-n-butylphthalate (mg/kg)	Beta-BHC (mg/kg)	4,4'-DDE (mg/kg)	4,4'-DDT (mg/kg)	Barium (mg/kg)	Lead (mg/kg)	Sulfide (mg/kg)	Total Cyanide (mg/kg)
Soil Samples Collected from Borehole Locations (Continued)												
121B6SO02RS	2	3/8/1992	0.12	NT	NT	ND	ND	ND	NT	NT	NT	NT
121B6SO05	5	2/12/1992	0.17[g]	ND	ND	ND	ND	ND	110	ND	ND	ND
121B6SO05B	5	2/12/1992	2.8[g]	ND	ND	ND	ND	ND	140	ND	ND	ND
121B6SO10	10	2/12/1992	2.5[g]	ND	ND	ND	ND	ND	70	ND	ND	ND
121B6SO10RS	10	3/8/1992	0.16	NT	NT	ND	ND	ND	NT	NT	NT	NT
121B7SO00	0	2/12/1992	0.48[g]	ND	ND	ND	ND	ND	82	5.6	ND	ND
121B7SO02	2	2/12/1992	0.26[f]	ND	ND	ND	ND	ND	41	ND	ND	ND
121B7SO05	5	2/12/1992	ND	ND	ND	ND	ND	ND	240	ND	ND	ND
121B7SO10	10	2/12/1992	ND	ND	ND	ND	ND	ND	67	ND	ND	ND
121B8SO00	0	2/12/1992	7.0[f]	ND	0.36	ND	ND	ND	70	5.6	ND	ND
121B8SO02	2	2/12/1992	2.7[f]	ND	ND	ND	ND	ND	60	ND	ND	ND
121B8SO05	5	2/12/1992	4.6[f]	ND	0.44	ND	ND	ND	31	ND	ND	ND
121B8SO10	10	2/12/1992	0.10[f]	ND	0.37	ND	ND	ND	57	ND	ND	ND
121B8SO10B	10	2/12/1992	0.03[f]	ND	0.57	ND	ND	ND	92	ND	ND	ND

[a] Table is modified from Table 2.13, Table 3.1, and "Appendix A of the Final RCRA Facility Investigation Report, Appendix II, III, and IV Sites, White Sands Missile Range, New Mexico, Volume I," December 1992, by IT Corporation for the U.S. Army Corps of Engineers, Huntsville, Alabama, Contract No. DACA 87¬90-D-0015, Delivery Order 002, Project No. 42-1671.

[b] Only samples with constituent concentrations above the detection limit are noted. The remainder of the data was not available in the archives. Table 3-1 lists all samples collected and analytes selected for each sample.

[c] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[d] According to the Phase I RFI report, this compound was introduced to the sample during collection as a result of using isopropyl alcohol to decontaminate the field equipment. The Phase I RFI concluded, after spiking various samples with isopropyl alcohol, that the detected acetone concentrations was an isopropyl alcohol oxidation product.

[d] "Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, New Mexico Environment Department.

[f] Sample was re-prepped outside of holding time to achieve this value. Sample flagged with (*) is also estimated.

[g] Sample was analyzed outside of holding times.

B = When the letter is located at the end of the sample name, the B indicates a triplicate sample.
B2 = Soil boring number, in this case soil boring 2.
BG = Background.
bgs = Below ground surface.
BHC = Benzene hexachloride.
DDE = (1,1-bis(chlorophenyl)-2,2-dichloroethene).
DDT = (1,1-bis(chlorophenyl)-2,2,2-trichloroethane).
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
mg/kg = Milligrams per kilogram.
NA = Not applicable.
ND = Not detected.
NM = New Mexico.
NT = Not tested.
PCB = Polychlorinated biphenyl.
RCRA = Resource Conservation and Recovery Act.
RFI = RCRA Facility Investigation.
RS = Resample.
SO = Soil.
SSL = Soil screening level.
SVOC = Semivolatile organic compound.
SWMU = Solid Waste Management Unit.
VOC = Volatile organic compound.
WSMR = White Sands Missile Range.

Table 3-4
Tank Sludge Waste Characterization Sampling Results, Final Closure Report[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

Analyte	CAS Number	Sample Date	Result	Detection Limit	TCLP Regulatory Limit[b]	Unit
Metals analyzed by EPA Methods 1311 and 6010[c]						
Arsenic	7440-38-2	4/15/1993	ND	0.05	5.0	mg/L
Barium	7440-39-3	4/15/1993	0.12	0.05	100	mg/L
Cadmium	7440-43-9	4/15/1993	ND	0.05	1.0	mg/L
Chromium	7440-47-3	4/15/1993	ND	0.05	5.0	mg/L
Lead	7439-92-1	4/15/1993	ND	0.05	5.0	mg/L
Mercury	7439-97-6	4/15/1993	ND	0.01	0.2	mg/L
Selenium	7782-49-2	4/15/1993	ND	0.05	1.0	mg/L
Silver	7440-22-4	4/15/1993	ND	0.05	5.0	mg/L
Volatile organic compounds by EPA Methods 1311 and 8260[c]						
Benzene	71-43-2	4/15/1993	ND	0.5	0.5	mg/L
Carbon tetrachloride	56-23-5	4/15/1993	ND	0.5	0.5	mg/L
Chlorobenzene	108-90-7	4/15/1993	ND	100	100.0	mg/L
Chloroform	67-66-3	4/15/1993	ND	6.0	6.0	mg/L
1,2-Dichloroethane	107-06-2	4/15/1993	ND	0.5	0.5	mg/L
1,1-Dichloroethylene	75-35-4	4/15/1993	ND	0.7	0.7	mg/L
Methyl ethyl ketone	78-93-3	4/15/1993	ND	200	200.0	mg/L
Tetrachloroethylene	127-18-4	4/15/1993	ND	0.7	0.7	mg/L
Trichloroethylene	79-01-6	4/15/1993	ND	0.5	0.5	mg/L
Vinyl chloride	75-01-4	4/15/1993	ND	0.2	0.2	mg/L
Semivolatile organic compounds by EPA Methods 1311 and 8270[c]						
Chlordane	57-74-9	4/15/1993	ND	0.03	0.03	mg/L
o-Cresol	95-48-7	4/15/1993	ND	200	200.0	mg/L
m-Cresol	108-39-4	4/15/1993	ND	200	200.0	mg/L
p-Cresol	106-44-5	4/15/1993	ND	200	200.0	mg/L
2,4-D (2,4-Dichlorophenoxyacetic acid) [d]	94-75-7	4/15/1993	ND	10	10.0	mg/L
1,4-Dichlorobenzene	106-46-7	4/15/1993	ND	7.5	7.5	mg/L
2,4-Dinitrotoluene	121-14-2	4/15/1993	ND	0.13	0.13	mg/L
Endrin	72-20-8	4/15/1993	ND	0.02	0.02	mg/L
Heptachlor	76-44-8	4/15/1993	ND	0.008	0.008	mg/L
Hexachlorobenzene	118-74-1	4/15/1993	ND	0.13	0.13	mg/L
Hexachloro-1,3-butadiene	87-68-3	4/15/1993	ND	0.5	0.50	mg/L
Hexachloroethane	67-72-1	4/15/1993	ND	3.0	3.0	mg/L

Table 3-4 (Continued)
Tank Sludge Waste Characterization Sampling Results, Final Closure Report[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

Analyte	CAS Number	Sample Date	Result	Detection Limit	TCLP Regulatory Limit[b]	Unit
Semivolatile organic compounds by EPA Methods 1311 and 8270[c] (Continued)						
Lindane	58-89-9	4/15/1993	ND	0.4	0.40	mg/L
Methoxychlor	72-43-5	4/15/1993	ND	10	10.0	mg/L
Nitrobenzene	98-95-3	4/15/1993	ND	2.0	2.0	mg/L
Heptachlor epoxide	76-44-8	4/15/1993	ND	0.008	0.008	mg/L
Pentachlorophenol	87-86-5	4/15/1993	ND	100	100.0	mg/L
Pyridine	110-86-1	4/15/1993	ND	5.0	5.0	mg/L
Toxaphene	8001-35-2	4/15/1993	ND	0.5	0.5	mg/L
2,4,5-Trichlorophenol	95-95-4	4/15/1993	ND	400	400.0	mg/L
2,4,6-Trichlorophenol	88-06-2	4/15/1993	ND	2.0	2.0	mg/L
2,4,5-TP (Silvex)	75-01-4	4/15/1993	ND	1.0	1.0	mg/L
pH Measurement by EPA Method 9040						
pH	NA	4/15/1993	8.8	NA	NA	S.U.

[a] This table is modified from Table 1.0 and Appendix B of the "Final Closure Report for the Storage Tank Removal and Remediation at Stallion Range Center, White Sands Missile Range, New Mexico," Contract No. DAAD07-90-C-0018, Work Assignment Order 400-11, Revision 4 and 5, August 30, 1993.

[b] 40 Code of Federal Regulations, Part 261.24, Table 1, "Maximum Concentration of Contaminants for the Toxicity Characteristic."

[c] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[d] Analyte is a chlorinated pesticide.

CAS = Chemical abstracts.
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
mg/L = Milligrams per liter.
NA = Not applicable.
ND = Not detected.
NM = New Mexico.
NT = Not tested.
PCB = Polychlorinated biphenyl.
RCRA = Resource Conservation and Recovery Act.
RFI = RCRA Facility Investigation.
S.U. = Standard unit.
SVOC = Semivolatile organic compound.
SWMU = Solid Waste Management Unit.
TCLP = Toxicity Characteristic Leaching Procedure.
TPH = Total petroleum hydrocarbons.
VOC = Volatile organic compound.
WSMR = White Sands Missile Range.

Table 3-5
Confirmation Soil Sampling Results, Final Closure Report[a]
SWMUs 121 - 123 (WSMR-67) Asphalt Tanks at Stallion Range
White Sands Missile Range, NM

Sample Number	Sample Date	TPH (EPA Method 418.1)[b]	
		Result (mg/kg)	Detection Limit (mg/kg)
Regulatory Limit[c]		1000[d]	NA
Tank 1 West	7/8/1993	280	10
Tank 1 East	7/8/1993	61	10
Tank 2 West	7/8/1993	**3800**	10
Tank 2 East	7/8/1993	**1700**	10

*Note: Values in **bold** exceed the regulatory limit.*

[a] This table is modified from Table 2.0 and Appendix C of the "Final Closure Report for the Storage Tank Removal and Remediation at Stallion Range Center," White Sands Missile Range, New Mexico, Contract No. DAAD07-90-C-0018, Work Assignment Order 400-11, Revision 4 and 5, August 30, 1993.

[b] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[c] ""Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table 6-2 updated February 2012, New Mexico Environment Department.

[d] Value is for Unknown Oil.

DL = Detection limit.
EPA = U.S. Environmental Protection Agency.
mg/kg = Milligrams per kilogram.
NA = Not applicable.
NM = New Mexico.
SWMU = Solid Waste Management Unit.
TPH = Total petroleum hydrocarbons.
WSMR = White Sands Missile Range.

Table 4-1
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase I RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name	Lab	Lab Work Order Number	Date Sampled	Sample Type	Analytical Suite and EPA Method Number[b]								
					Total Metals (6010)	Total Mercury (7471)	Total Arsenic (6010/ 7060)	Total Selenium (7740 GF)	VOCs (8240)	SVOCs (8270)	PCBs and Organochlorine Pesticides (8080)	Organophosphorus Pesticides (8140)	Chlorinated Herbicides (8150)
Site-Specific Background Soil Samples													
156BG1SO03	IT	B2-02-148	2/17/1992	Background soil	X	X	X	X	X	X	X	X	X
156BGSO01RS	IT	B2-04-075	4/8/1992	Resample									X
Soil Samples Collected from Borehole Locations													
156B1SO01	IT	B2-02-148	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156SB1SO02RS	IT	B2-04-075	4/8/1992	Resample									X
156B1SO03	IT	B2-02-148	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156B1SO01RS	IT	B2-04-075	4/8/1992	Resample									X
156B2SO01	IT	B2-02-148	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156B2SO01RS	IT	B2-04-075	4/8/1992	Resample									X
156SB2SO01BRS	IT	B2-04-075	4/8/1992	Triplicate									X
156SB2SO02RS	IT	B2-04-075	4/8/1992	Resample									X
156B2SO03	IT	B2-02-148	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156B3SO01	IT	B2-04-148	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156SB3SO01RS	IT	B2-04-075	4/8/1992	Resample									X
156SB3SO02RS	IT	B2-04-075	4/8/1992	Resample									X
156B3SO03	IT	B2-02-148	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156B4SO01	IT	B2-02-149	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156SB4SO01RS	IT	B2-04-075	4/8/1992	Resample									X
156SB4SO02RS	IT	B2-04-075	4/8/1992	Resample									X
156B4SO03	IT	B2-02-149	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156B4SO03B	IT	B2-02-149	2/17/1992	Triplicate	X	X	X	X	X	X	X	X	X
156B5SO01	IT	B2-02-149	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156SB5SO01RS	IT	B2-04-075	4/8/1992	Resample									X
156SB5SO02RS	IT	B2-04-075	4/8/1992	Resample									X
156B5SO03	IT	B2-02-149	2/17/1992	Subsurface soil	X	X	X	X	X	X	X	X	X
156TB1[c]	IT	B2-02-149	2/3/1992	Trip Blank					X				

[a] Table is modified from Table 3.1 and Appendix A of the "Final RCRA Facility Investigation Report, Appendix II, III, and IV Sites, White Sands Missile Range, New Mexico, Volume I," December 1992, by IT Corporation for the U.S. Army Corps of Engineers, Huntsville, Alabama, Contract No. DACA 87¬90-D-0015, Delivery Order 002, Project No. 42-1671.

[b] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[c] Trip blanks were prepared in the laboratory and accompanied sample bottles and samples during shipment.

B = In the sample number, the B located near the end of the sample name indicates a triplicate sample.

B3 = In the sample number, when the B is followed by a number, it indicates the borehole number. In this case, B3 is Borehole 3.

Table 4-1 (Continued)
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase I RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

BG	*= In the sample number, the BG indicates a background sample.*
EPA	*= U.S. Environmental Protection Agency.*
GF	*= Analyses performed using graphite furnace.*
IT	*= International Technology Analytical Services, Austin, Texas.*
NM	*= New Mexico.*
PCB	*= Polychlorinated biphenyl.*
RCRA	*= Resource Conservation and Recovery Act.*
RFI	*= RCRA Facility Investigation.*
RS	*= Resample.*
SB	*= Soil boring.*
SO	*= Soil sample.*
SVOC	*= Semivolatile organic compound.*
SWMU	*= Solid Waste Management Unit.*
TB	*= Trip blank.*
VOC	*= Volatile organic compound.*
X	*= Indicates the analyses performed for the samples.*
WSMR	*= White Sands Missile Range.*

Table 4-2
Soil Sampling Results for Detected PCBs, Pesticides, and Herbicides, Phase I RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name[b]	Sample Depth (ft bgs)	Sample Date	PCBs and Organochlorine Pesticides (EPA Method 8080)[c]										Organophosphorus Pesticides (EPA Method 8140)[c]		Chlorinated Herbicides (EPA Method 8150)[c]		
			Aldrin (mg/kg)	beta-BHC (mg/kg)	delta-BHC (mg/kg)	4,4' – DDE (mg/kg)	Endosulfan II (mg/kg)	4,4' – DDT (mg/kg)	Endrin Aldehyde (mg/kg)	Chlordane (mg/kg)	gamma-BHC (Lindane) (mg/kg)	Heptachlor Epoxide (mg/kg)	Diazinon (mg/kg)	DDVP (Dichlorvos) (mg/kg)	2,4,5-T (mg/kg)	2,4-D (mg/kg)	2,4-DB (mg/kg)
Regulatory Limit[d]			0.284	2.7	NE	14.3	367	17.2	NE	16.2	5.17	0.053[e]	43[e]	1.7[e]	610[e]	690[e]	490[e]
Site-Specific Background Samples																	
156BG1SO03	3	2/17/1992	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
156BGSO01RS	1	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND
Soil Samples Collected from Borehole Locations																	
156B1SO01	1	2/17/1992	0.0053	ND	0.0059	0.0092	0.0068[f]	0.011	0.0075[f]	0.20	ND	ND	2.5	0.040	ND	1.6	NT
156B1SO01RS	1	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	4.3	ND
156B1SO03	3	2/17/1992	ND	ND	ND	ND	ND	ND	ND	0.047	ND	ND	0.24	ND	ND	0.22	NT
156SB1SO02RS	2	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.020	7.5	0.029
156B2SO01	1	2/17/1992	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
156B2SO01RS	1	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND
156SB2SO01BRS	1	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND
156SB2SO02RS	2	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND
156B2SO03	3	2/17/1992	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT
156B3SO01	1	2/17/1992	ND	ND	ND	ND	ND	0.011	ND	0.070	ND	ND	ND	ND	ND	ND	NT
156SB3SO01RS	1	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	0.034	ND
156B3SO03	3	2/17/1992	ND	ND	ND	ND	ND	0.0076	ND	0.045	ND	ND	ND	ND	ND	ND	NT
156SB3SO02RS	2	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	0.034
156B4SO01	1	2/17/1992	0.0062[f]	0.0077[f]	ND	0.0087	ND	0.019	ND	0.30	ND	ND	ND	ND	ND	ND	NT
156SB4SO01RS	1	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND
156SB4SO02RS	2	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND
156B4SO03	3	2/17/1992	ND	ND	ND	ND	ND	ND	ND	0.16	ND	ND	ND	ND	ND	ND	NT
156B4SO03B	3	2/17/1992	ND	ND	ND	0.0090	ND	0.011	ND	0.19	ND	0.0036[f]	ND	ND	ND	ND	NT

Table 4-2 (Continued)
Soil Sampling Results for Detected PCBs, Pesticides, and Herbicides, Phase I RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name[b]	Sample Depth (ft bgs)	Sample Date	PCBs and Organochlorine Pesticides (EPA Method 8080)[c]										Organophosphorus Pesticides (EPA Method 8140)[c]		Chlorinated Herbicides (EPA Method 8150)[c]		
			Aldrin (mg/kg)	beta-BHC (mg/kg)	delta-BHC (mg/kg)	4,4' – DDE (mg/kg)	Endosulfan II (mg/kg)	4,4' – DDT (mg/kg)	Endrin Aldehyde (mg/kg)	Chlordane (mg/kg)	gamma-BHC (Lindane) (mg/kg)	Heptachlor Epoxide (mg/kg)	Diazinon (mg/kg)	DDVP (Dichlorvos) (mg/kg)	2,4,5-T (mg/kg)	2,4-D (mg/kg)	2,4-DB (mg/kg)
Soil Samples Collected from Borehole Locations (Continued)																	
156B5SO01	1	2/17/1992	0.0054[f]	ND	ND	ND	ND	ND	ND	0.21	ND	ND	ND	ND	ND	ND	NT
156SB5SO01RS	1	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	0.022
156SB5SO02RS	2	4/8/1992	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	ND
156B5SO03	3	2/17/1992	ND	ND	ND	ND	ND	ND	ND	0.29	0.0038[f]	ND	ND	ND	ND	ND	NT

[a] Table is modified from Tables 2-41 and 3-2 of the "Final RCRA Facility Investigation Report, Appendix II, III, and IV Sites, White Sands Missile Range, New Mexico, Volume I," December 1992, by IT Corporation for the U.S. Army Corps of Engineers, Huntsville, Alabama, Contract No. DACA 87¬90-D-0015, Delivery Order 002, Project No. 42-1671.

[b] Only samples with constituent concentrations above the detection limit are noted.

[c] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[d] Regulatory limit is the NMED residential SSL unless noted otherwise. ""Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, New Mexico Environment Department.

[e] EPA Residential Regional Screening Level for Chemical Contaminants at Superfund Sites, May 2012, EPA.

[f] Due to the high concentrations of chlordane in this sample, the concentration and positive confirmation of these compounds could not be determined. The reported value reflects the lower of the two determined compounds.

2,4-D = 2,4-Dichlorophenoxyacetic acid.
2,4-DB = 4-(2,4-Dichlorophenoxy)butyric acid.
2,4,5-T = 2,4,5-Trichlorophenoxyacetic acid.
bgs = Below ground surface.
BHC = Benzene hexachloride.
DDE = (1,1-bis(chlorophenyl)-2,2-dichloroethene).
DDT = (1,1-bis(chlorophenyl)-2,2,2-trichloroethane).
DDVP = Dichlorvos
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
mg/kg = Milligrams per kilogram.
ND = Not detected.
NE = Not established.
NMED = New Mexico Environment Department.
NT = Not tested.
PCB = Polychlorinated biphenyl.
RCRA = Resource Conservation and Recovery Act.
RFI = RCRA Facility Investigation.
SSL = Soil screening level.
SWMU = Solid Waste Management Unit.
WSMR = White Sands Missile Range.

Table 4-3
Soil Sampling Results for Detected Metals, Phase I RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Number[b]	Depth (ft bgs)	Sample Date	Total Metals (EPA Method 6010)[c]						
			Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Regulatory Limit[d]			3.90	15,600	70.30	400	15.60[e]	391	391
Site-Specific Background Sample									
156BG1S003	3	2/17/1992	0.51	56	ND	7.0	ND	ND	ND
Soil Samples Collected from Borehole Locations									
156B1SO01	1	2/17/1992	1.4	36	0.54	7.2	1.4	ND	ND
156B1SO03	3	2/17/1992	1.8	68	ND	5.5	ND	ND	ND
156B2SO01	1	2/17/1992	1.4	50	1.2	15.0	ND	ND	ND
156B2SO03	3	2/17/1992	1.3	55	0.50	12.0	ND	ND	ND
156B3SO01	1	2/17/1992	1.2	61	ND	7.0	ND	ND	ND
156B3SO03	3	2/17/1992	1.3	80	ND	11.0	ND	ND	ND
156B4SO01	1	2/17/1992	3.2	56	ND	6.2	ND	ND	ND
156B4SO03	3	2/17/1992	1.4	54	ND	7.5	ND	ND	ND
156B4SO03B [f]	3	2/17/1992	1.7	50	ND	9.4	ND	ND	ND
156B5SO01	1	2/17/1992	1.2	43	ND	ND	ND	ND	ND
156B5SO03	3	2/17/1992	0.88	53	ND	7.0	ND	ND	ND

[a] Table is modified from Tables 2-41 and 3-2 of the "Final RCRA Facility Investigation Report, Appendix II, III, and IV Sites, White Sands Missile Range, New Mexico, Volume I," December 1992, by IT Corporation for the U.S. Army Corps of Engineers, Huntsville, Alabama, Contract No. DACA 87-90-D-0015, Delivery Order 002, Project No. 42-1671.

[b] Only samples with constituent concentrations above the detection limit are noted.

[c] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

Table 4-3 (Continued)
Soil Sampling Results for Detected Metals, Phase I RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

[d] "Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, New Mexico Environment Department.

[e] As elemental mercury.

[f] Duplicate sample.

bgs = Below ground surface.

EPA = U.S. Environmental Protection Agency.

ft = Foot (feet).

mg/kg = Milligrams per kilogram.

ND = Not detected.

NMED = New Mexico Environment Department.

RCRA = Resource Conservation and Recovery Act.

RFI = RCRA Facility Investigation.

SWMU = Solid Waste Management Unit.

WSMR = White Sands Missile Range.

Table 4-4
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase II RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name	Sample Depth (ft bgs)	Lab	Lab Sample ID	Data Pack #	Date Sampled	Sample Type	Total Metals (EPA Method 6010)[b]	VOCs (EPA Method 8240)[b]	SVOCs (EPA Method 8270)[b]	PCBs and Organochlorine Pesticides (EPA Method 8080)[b]	Organophosphorus Pesticides (EPA Method 8140)[b]	Organochlorine Herbicides (EPA Method 8150)[b]
Site-Specific Background Sample												
156HA 11	0	Carr	687	85-05	1/10/1994	Hand Auger	X					
Soil Samples Collected from Hand Auger Locations												
156HA01	0	Carr	698	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA01	2	Carr	699	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156 HA02	0	Carr	678	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA02	2	Carr	679	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA03	0	Carr	682	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA03	2	Carr	680	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA04	0	Carr	683	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA04	2	Carr	681	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA05	0	Carr	700	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA05	2	Carr	701	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA05QC	2	Carr	702	85-05	1/10/1994	Quality Control	X	X	X	X	X	X
156HA05	3	Carr	703	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA06	0	Carr	704	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA06	0	Carr	705	85-05	1/10/1994	MS	X		X	X	X	X
156HA06	0	Carr	706	85-05	1/10/1994	MSD	X		X	X	X	X
156HA06	2	Carr	707	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156 HA06	4	Carr	708	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA07	0	Carr	684	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA07	2	Carr	685	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA07	4	Carr	686	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA08	0	Carr	709	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA08	2	Carr	710	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA08	3	Carr	689	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA09	0	Carr	690	85-05	1/10/1994	Hand Auger	X		X	X	X	X

Table 4-4 (Continued)
Characterization Sample Names, Laboratory Analyses, and Analytical Methods, Phase II RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name	Sample Depth (ft bgs)	Lab	Lab Sample ID	Data Pack #	Date Sampled	Sample Type	Total Metals (EPA Method 6010)[b]	VOCs (EPA Method 8240)[b]	SVOCs (EPA Method 8270)[b]	PCBs and Organochlorine Pesticides (EPA Method 8080)[b]	Organophosphorus Pesticides (EPA Method 8140)[b]	Organochlorine Herbicides (EPA Method 8150)[b]
Soil Samples Collected from Hand Auger Locations (Continued)												
156HA09	2	Carr	691	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA09	4	Carr	693	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA09QC	2	Carr	692	85-05	1/10/1994	Quality Control	X	X	X	X	X	X
156HA09		Carr	676	85-05	1/10/1994	EB	X	X	X	X	X	X
156HA10QC	0	Carr	695	85-05	1/10/1994	Quality Control	X		X	X	X	X
156HA10	0	Carr	694	85-05	1/10/1994	Hand Auger	X		X	X	X	X
156HA10	2	Carr	696	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X
156HA10	4	Carr	697	85-05	1/10/1994	Hand Auger	X	X	X	X	X	X

[a] Table created from information found in "Final RCRA Facility Investigation Report, Appendix II, III, and IV Sites, White Sands Missile Range, New Mexico, Revision I," December 1994, by Sverdrup Environmental Corporation for the U.S. Army Corps of Engineers, Tulsa, Oklahoma, Contract No. DACA 56-93-D-0002/0001.
[b] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

bgs = Below ground surface.
EB = Equipment rinsate blank.
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
HA = Hand auger sample.
ID = Identifier.
MS = Matrix spike.
MSD = Matrix spike duplicate.
PCB = Polychlorinated biphenyl.
RCRA = Resource Conservation and Recovery Act.
RFI = RCRA Facility Investigation.
SVOC = Semivolatile organic compound.
SWMU = Solid waste management unit.
VOC = Volatile organic compound.
WSMR = White Sands Missile Range.
X = Indicates the analyses performed for the samples.
Grey = Grey shading indicates the detection of at least one analyte.

Table 4-5
Soil Sampling Results for Detected VOCS, PCBs, and Pesticides, Phase II RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name[b]	Sample Depth (ft bgs)	Sample Date	VOCs (EPA Method 8240)[c]					PCBs and Organochlorine pesticides (EPA Method 8080)[c]			
			Acetone (mg/kg)	Carbon Tetrachloride (mg/kg)	1,1-Dichloroethene (mg/kg)	Methylene Chloride (mg/kg)	1,1,1 - Trichloroethane (mg/kg)	4,4' - DDD (mg/kg)	4, 4' - DDE (mg/kg)	4, 4' - DDT (mg/kg)	Endosulfan I (mg/kg)
Regulatory Limit[d] (mg/kg)			66,600	10.80	449	409	15,600	20.3	14.3	17.2	367
Soil Samples Collected from Hand Auger Locations											
0156HA01	0	1/10/1994	NT	NT	NT	NT	NT	<0.00769 UJ	<0.00280 UJ	<0.00839 UJ	<0.00979 UJ
0156HA01	2	1/10/1994	<0.0205	<0.00513	<0.00513	<0.00513	<0.00513	<0.00756 UJ	<0.00275 UJ	<0.00825 UJ	<0.00962 UJ
0156HA02	0	1/10/1994	NT	NT	NT	NT	NT	<0.00759 UJ	<0.00276 UJ	<0.00828 UJ	<0.00966 UJ
0156HA02	2	1/10/1994	0.0541	<0.00511	<0.00511	0.0061	<0.00511	<0.00754 UJ	<0.00274 UJ	<0.00822 UJ	<0.00959 UJ
0156HA03	0	1/10/1994	NT	NT	NT	NT	NT	<0.00777 UJ	0.00470 J	<0.00848 UJ	<0.00989 UJ
0156HA03	2	1/10/1994	0.0216	<0.00539	<0.00539	0.0082	<0.00539	<0.00795 UJ	<0.00289 UJ	<0.00867 UJ	<0.0101 UJ
0156HA04	0	1/10/1994	NT	NT	NT	NT	NT	<0.00764 UJ	<0.00278 UJ	<0.00834 UJ	<0.00973 UJ
0156HA04	2	1/10/1994	<0.0203	0.0525	0.0157	0.0061	0.31	<0.00747 UJ	<0.00272 UJ	<0.00815 UJ	<0.00951 UJ
0156HA05	0	1/10/1994	NT	NT	NT	NT	NT	<0.00753 UJ	<0.00274 UJ	<0.00821 UJ	<0.00958 UJ
0156HA05	2	1/10/1994	<0.0205	<0.00513	<0.00513	<0.00513	<0.00513	<0.00756 UJ	<0.00275 UJ	<0.00825 UJ	<0.00962 UJ
0156HA05	3	1/10/1994	<0.0204	<0.00510	<0.00510	<0.00510	<0.00510	<0.00752 UJ	<0.00273 UJ	<0.00820 UJ	<0.00957 UJ
0156HA06	0	1/10/1994	NT	NT	NT	NT	NT	<0.00754 UJ	<0.00274 UJ	<0.00823 UJ	<0.00960 UJ
0156HA06	2	1/10/1994	<0.0214	<0.00536	<0.00536	<0.00536	<0.00536	<0.00790 UJ	<0.00287 UJ	<0.00862 UJ	<0.0100 UJ
0156HA06	4	1/10/1994	<0.0204	0.00756 J	<0.00511	<0.00511	0.060 J	<0.00753 UJ	<0.00274 UJ	<0.00821 UJ	<0.00958 UJ
0156HA07	0	1/10/1994	NT	NT	NT	NT	NT	<0.00764 UJ	<0.00278 UJ	<0.00834 UJ	<0.00973 UJ
0156HA07	2	1/10/1994	0.0278 J	0.00646 J	<0.00513	0.00687 J	0.0386 J	<0.00756 UJ	<0.00275 UJ	<0.00825 UJ	<0.00962 UJ
0156HA07	4	1/10/1994	<0.0204	0.00511	<0.00511	0.00531 J	0.0285 J	<0.00753 UJ	<0.00274 UJ	<0.00821 UJ	<0.00958 UJ
0156HA08	0	1/10/1994	NT	NT	NT	NT	NT	<0.00760 UJ	<0.00276 UJ	<0.00830 UJ	<0.00968UJ
0156HA08	2	1/10/1994	<0.0204	0.00511	<0.00511	<0.00511	<0.00511	<0.00753 UJ	<0.00274 UJ	<0.00821 UJ	<0.00958 UJ
0156HA08	3	1/10/1994	<0.0203	0.00508	<0.00508	<0.00508	<0.00508	<0.00749 UJ	<0.00272 UJ	<0.00817 UJ	<0.00953 UJ
0156HA09	0	1/10/1994	NT	NT	NT	NT	NT	<0.00750 UJ	0.00295 J	<0.00819 UJ	<0.00955 UJ
0156HA09	2	1/10/1994	<0.0206	0.00514	<0.00514	<0.00514	<0.00514	<0.00757 UJ	<0.00275 UJ	<0.00826 UJ	<0.00964 UJ

Table 4-5 (Continued)
Soil Sampling Results for Detected VOCS, PCBs, and Pesticides, Phase II RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name[b]	Sample Depth (ft bgs)	Sample Date	VOCs (EPA Method 8240)[c]					PCBs and Organochlorine pesticides (EPA Method 8080)[c]			
			Acetone (mg/kg)	Carbon Tetrachloride (mg/kg)	1,1-Dichloroethene (mg/kg)	Methylene Chloride (mg/kg)	1,1,1 - Trichloroethane (mg/kg)	4,4' - DDD (mg/kg)	4, 4' - DDE (mg/kg)	4, 4' - DDT (mg/kg)	Endosulfan I (mg/kg)
Soil Samples Collected from Hand Auger Locations (Continued)											
0156HA09	4	1/10/1994	<0.0203	0.0158 J	0.00527	<0.00507	0.0973 J	<0.00747 UJ	<0.00272 UJ	<0.00815 UJ	<0.00951 UJ
0156HA10	0	1/10/1994	NT	NT	NT	NT	NT	0.00755 J	0.00480 J	0.0197 J	0.0154 J
0156HA10	2	1/10/1994	<0.0207	<0.00517	<0.00517	<0.00517	<0.00517	<0.00762 UJ	<0.00277 UJ	<0.00831 UJ	<0.00970 UJ
0156HA10	4	1/10/1994	<0.0207	<0.00518	<0.00518	<0.00518	<0.00518	<0.00763 UJ	<0.00277 UJ	<0.00832 UJ	<0.00971 UJ

[a] Phase II RCRA Facility Assessment, Appendix I, II, III, IV Sites, White Sands Missile Range, New Mexico, Revision 1, USACE, Tulsa District, Contract No. DACA5693-D-002/001, 1994, Sverdrup Environmental Corporation.
[b] Only samples with constituent concentrations above the detection limit are noted.
[c] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.
[d] "Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, New Mexico Environment Department.

< = Less than the indicated laboratory reporting limit.
bgs = Below ground surface.
DDD = (1,1-bis(chlorophenyl)-2,2-dichloroethane).
DDE = (1,1-bis(chlorophenyl)-2,2-dichloroethene).
DDT = (1,1-bis(chlorophenyl)-2,2,2-trichloroethane).
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
HA = Hand auger location.
J = Concentration is estimated.
mg/kg = Milligrams per kilogram.
NM = New Mexico.
NT = Not tested.
PCB = Polychlorinated biphenyl.
RCRA = Resource Conservation and Recovery Act.
RFI = RCRA Facility Investigation.
SWMU = Solid waste management unit.
UJ = The analyte was not detected above the reported sample quantitation limit.
USACE = U.S. Army Corps of Engineers.
VOC = Volatile organic compound.
WSMR = White Sands Missile Range.

Table 4-6
Soil Sampling Results for Detected Metals, Phase II RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name	Sample Depth (ft bgs)	Sample Date	Total Metals (EPA Method 6010)[b]							
			Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Regulatory Limit [c]			3.90	15,600	70.30	117,000 [d]	400	15.60 [e]	391	391
Site-Specific Background Location										
0156HA11	0	1/10/1994	<2.54	28.4	<5.08	<25.4UJ	5.12	<0.0203UJ	<2.54	<25.4
Soil Samples Collected from Hand Auger Locations										
0156HA01	0	1/10/1994	<2.61	51.1	<5.22	52.2J	9.57	<0.0209UJ	<2.61	<26.1
0156HA01	2	1/10/1994	<2.56	62.6	<5.13	45.1J	8.19	<0.0205UJ	<2.56	<25.6
0156HA02	0	1/10/1994	<2.57	50.0	<5.15	<25.7UJ	6.79	0.0206J	<2.57	<25.7
0156HA02	2	1/10/1994	<2.56	58.5	<5.11	<25.6UJ	6.90	<0.0204UJ	<2.56	<25.6
0156HA03	0	1/10/1994	<2.64	58.0	<5.27	<26.4UJ	8.21	<0.0211UJ	<2.64	<26.4
0156HA03	2	1/10/1994	<2.70	77.1	<5.39	<27.0UJ	10.7	<0.0216UJ	<2.70	<27.0
0156HA04	0	1/10/1994	<2.59	55.0	6.12	27J	8.18	<0.0207UJ	<2.59	<25.9
0156HA04	2	1/10/1994	<2.54	51.7	<5.07	<25.4UJ	6.91	<0.0203UJ	<2.54	<25.4
0156HA05	0	1/10/1994	<2.55	46.0	<5.11	47.0J	7.38	<0.0204UJ	<2.55	<25.5
0156HA05	2	1/10/1994	<2.56	70.8	<5.13	<25.6UJ	9.46	<0.0205UJ	<2.56	<25.6
0156HA05	3	1/10/1994	<2.55	58.2	<5.10	<25.5UJ	7.37	<0.0204UJ	<2.55	<25.5

Table 4-6 (Continued)
Soil Sampling Results for Detected Metals, Phase II RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name	Sample Depth (ft bgs)	Sample Date	Total Metals (EPA Method 6010)[b]							
			Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Soil Samples Collected from Hand Auger Locations (Continued)										
0156HA05QC	2	1/10/1994	<2.57	66.9	<5.15	<25.7	9.16	<0.0206	<2.57	<25.7
0156HA06	0	1/10/1994	<2.56	59.4	<5.12	<25.6UJ	8.10	<0.0205UJ	<2.56	<25.6
0156HA06	2	1/10/1994	<2.68	71.8	<5.36	<26.8UJ	15.0	<0.0214UJ	<2.68	<26.8
0156HA06	4	1/10/1994	<2.55	85.8	6.33	<25.5UJ	8.23	<0.0204UJ	<2.55	<25.5
0156HA07	0	1/10/1994	<2.59	49.8	5.39	<25.9UJ	7.74	<0.0207UJ	<2.59	<25.9
0156HA07	2	1/10/1994	<2.56	62.6	<5.13	<25.6UJ	8.51	0.0205J	<2.56	<25.6
0156HA07	4	1/10/1994	<2.55	61.3	7.15	<25.5UJ	10.4	0.0306J	<2.55	<25.5
0156HA08	0	1/10/1994	<2.58	64.0	<5.16	<25.8UJ	8.27	<0.0206UJ	<2.58	<25.8
0156HA08	2	1/10/1994	<2.55	67.4	<5.11	<25.5UJ	9.49	<0.0204UJ	<2.55	<25.5
0156HA08	3	1/10/1994	<2.54	67.1	6.40	<25.4UJ	9.57	<0.0203UJ	<2.54	<25.4
0156HA09	0	1/10/1994	<2.54	63.1	<5.09	51.9J	19.1	0.316J	<2.54	<25.4
0156HA09	2	1/10/1994	<2.57	54.5	<5.14	49.6J	9.88	<0.0206UJ	<2.57	<25.7
0156HA09	4	1/10/1994	<2.54	34.5	<5.07	46.6J	4.93	<0.0203UJ	<2.54	<25.4
0156HA09QC	2	1/10/1994	<2.56	66.3	<5.12	56.0	8.30	0.0512	<2.56	<25.6
0156HA10QC	0	1/10/1994	<2.55	58.1	<5.10	149.0	18.6	0.112	<2.55	<25.5
0156HA10	0	1/10/1994	<2.55	56.1	<5.10	108.0J	14.1	0.133J	<2.55	<25.5

Table 4-6 (Continued)
Soil Sampling Results for Detected Metals, Phase II RFI[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Name	Sample Depth (ft bgs)	Sample Date	Total Metals (EPA Method 6010)[b]							
			Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Soil Samples Collected from Hand Auger Locations (Continued)										
0156HA10	2	1/10/1994	<2.58	53.8	<5.17	51.7J	8.38	<0.0207UJ	<2.58	<25.8
0156HA10	4	1/10/1994	<2.59	71.4	<5.18	55.9J	9.43	<0.0207UJ	<2.59	<25.9

[a] *Phase II RCRA Facility Assessment, Appendix I, II, III, IV Sites, White Sands Missile Range, New Mexico, Revision 1, USACE, Tulsa District, Contract No. DACA5693-D-002/001, 1994, Sverdrup Environmental Corporation.*

[b] *"Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.*

[c] *"Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, New Mexico Environment Department.*

[d] *As trivalent chromium.*

[e] *As elemental mercury.*

< = *Less than the indicated laboratory reporting limit.*
bgs = *Below ground surface.*
EPA = *U.S. Environmental Protection Agency.*
ft = *Foot (feet).*
HA = *Hand auger location.*
J = *Concentration is estimated.*
mg/kg = *Milligrams per kilogram.*
NM = *New Mexico.*
QC = *Quality control.*
RCRA = *Resource Conservation and Recovery Act.*
RFI = *RCRA Facility Investigation.*
SWMU = *Solid Waste Management Unit.*
UJ = *The analyte was not detected above the reported sample quantitation limit.*
USACE = *U.S. Army Corps of Engineers.*
WSMR = *White Sands Missile Range.*

Table 4-7
Pre-Excavation Metals Results for Wood and Soil, Site Closeout Report[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Number	Depth (ft bgs)	Sample Date	Sample Location	Total Metals (EPA Methods 6010, 7470, and 7740) [b]							
				Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Regulatory Limit [c]				3.90	15,600	70.30	117,000 [d]	400	15.60 [e]	391	391
Wood Samples											
156-WF1	NA	12/12/1994	Wood Comp	ND	ND	ND	ND	ND	ND	ND	ND
156-WF2	NA	12/12/1994	Wood Comp	ND	ND	ND	ND	ND	ND	ND	ND
Soil Samples											
156-C-01	0 to 1	12/12/1994	Center area	2.6	66.1	2.9	132	32.2	0.46	ND	ND
156-C-12	1 to 2	12/12/1994	Center Area	1.7	53.9	0.77	21.7	7.22	ND	ND	ND
156-SW-01	0 to 1	12/12/1994	Southwest Corner	1.9	53.5	ND	7.9	0.85	ND	ND	ND
156-SW-12	1 to 2	12/12/1994	Southwest Corner	1.3	58.7	ND	7.7	5.52	ND	ND	ND
156-NW-01	0 to 1	12/12/1994	Northwest Corner	**4.4**	58.7	ND	8.9	10.8	0.1	ND	ND
156-NW-12	1 to2	12/12/1994	Northwest Corner	3.0	67.3	ND	8.8	9.32	ND	ND	ND
156-NE-01	0 to 1	12/12/1994	Northeast Corner	**9.2**	95.4	11.3	554.0	122.0	**19.0**	ND	4.2
156-NE-12	1 to 2	12/12/1994	Northeast Corner	2.6	75.5	1.9	95.2	13.0	0.64	ND	ND
156-SE-01	0 to 1	12/12/1994	Southeast Corner	**8.1**	167.0	39.4	657.0	**400.0**	1.06	ND	16.7
156-SE-01-QC	0 to 1	12/12/1994	Southeast Corner	**4.5**	195.0	45.9	785.0	326.0	0.95	ND	20.2
156-SE-12	1 to 2	12/12/1994	Southeast Corner	2.4	93.1	12.2	221.0	127.0	0.21	ND	4

Table 4-7 (Continued)
Pre-excavation Metals Results for Wood and Soil, Site Closeout Report[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Number	Depth (ft bgs)	Sample Date	Sample Location	Total Metals (EPA Methods 6010, 7470, and 7740) [b]							
				Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
Soil Samples (Continued)											
156-SE-12-QC	1 to 2	12/12/1994	Southeast Corner	2.6	87.8	12.0	199.0	131.0	0.24	ND	4.4

*Note: Values in **bold** exceed the regulatory limit.*

The original report only provides the detection limits as a range, encompassing all metals in the analytical suite. The laboratory data package could not be located and retrieved.

[a] Dow Environmental, Inc., 1996, Close Out Report, SWMU 80 - Dried Sludge Piles, SWMU 90 -Waste Accumulation Area, SWMU 140 - LC 37 Paint Dump, SWMU 153 - Vandal Site at Hazardous Test Area, SWMU 156 - Pesticide Shed at WSMR Golf Course, White Sands Missile Range, New Mexico, USACE Contract DACA56-93-D-0016, DEI Project No. 6015.

[b] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[c] "Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, New Mexico Environment Department.

[e] As trivalent chromium.

[e] As elemental mercury.

bgs = Below ground surface.
Comp = Composite sample.
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
mg/kg = Milligrams per kilogram.
ND = Not detected.
QC = Quality control.
NMED = New Mexico Environment Department.
ND = Not detected.
SWMU = Solid Waste Management Unit.
USACE = U.S. Army Corps of Engineers.
WF = Wood floor.
WSMR = White Sands Missile Range.

Table 4-8
Pre-Excavation Waste Characterization Results, TCLP Metals, Site Closeout Report[a]
SWMUs 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Number	Sample Depth (ft bgs)	Sample Date	Sample Location	TCLP Metals (EPA Methods 1311, 6010, 7470, and 7740) [b]							
				Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Regulatory Limit [c]				5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0
Wood Samples											
156-WF1	NA	12/12/1994	Wood Comp	ND	0.50	ND	ND	ND	0.0124	ND	ND
156-WF2	NA	12/12/1994	Wood Comp	ND	0.518	ND	ND	ND	ND	ND	ND
Soil Samples											
156-C-01	0 to 1	12/12/1994	Center Area	ND	0.89	ND	ND	ND	ND	ND	ND
156-C-12	1 to 2	12/12/1994	Center Area	ND	1.08	ND	ND	ND	ND	ND	ND
156-SW-01	0 to 1	12/12/1994	Southwest Corner	ND	0.25	ND	ND	ND	ND	ND	ND
156-SW-12	1 to 2	12/12/1994	Southwest Corner	ND	0.27	ND	ND	ND	ND	ND	ND
156-NW-01	0 to 1	12/12/1994	Northwest Corner	ND	0.49	ND	0.17	ND	ND	ND	ND
156-NW-12	1 to2	12/12/1994	Northwest Corner	ND	0.40	ND	ND	ND	ND	ND	ND
156-NE-01	0 to 1	12/12/1994	Northeast Corner	ND	0.81	0.094	0.084	ND	0.0026	ND	ND
156-NE-12	1 to 2	12/12/1994	Northeast Corner	ND	1.01	ND	ND	ND	ND	ND	ND
156-SE-01	0 to 1	12/12/1994	Southeast Corner	ND	0.643	0.084	ND	ND	ND	ND	ND
156-SE-01-QC	0 to 1	12/12/1994	Southeast Corner	ND	0.51	0.096	ND	ND	ND	ND	ND
156-SE-12	1 to 2	12/12/1994	Southeast Corner	ND	0.32	0.057	ND	ND	ND	ND	ND

Table 4-8 (Continued)
Pre-excavation Waste Characterization Results, TCLP Metals, Site Closeout Report[a]
SWMUs 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

Sample Number	Sample Depth (ft bgs)	Sample Date	Sample Location	TCLP Metals (EPA Methods 1311, 6010, 7470, and 7740) [b]							
				Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Soil Samples (Continued)											
156-SE-12-QC	1 to 2	12/12/1994	Southeast Corner	ND	0.92	0.062	ND	ND	ND	ND	ND

Note: The original report only provides the detection limits as a range, encompassing all metals in the analytical suite. The laboratory data package could not be located and retrieved.

[a] Dow Environmental, Inc., 1996, Close Out Report, SWMU 80 - Dried Sludge Piles, SWMU 90 -Waste Accumulation Area, SWMU 140 - LC 37 Paint Dump, SWMU 153 - Vandal Site at Hazardous Test Area, SWMU 156 - Pesticide Shed at WSMR Golf Course, White Sands Missile Range, New Mexico, USACE Contract DACA56-93-D-0016, DEI Project No. 6015.

[b] Test Methods for Evaluating Solid Waste, Second Edition, Office of Solid Waste Manual SW-846

[c] Maximum concentration of contaminants for the toxicity characteristic, 40 Code of Federal Regulations 261.24, Table 1.

bgs = Below ground surface.
Comp = Composite sample.
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
mg/L = Milligrams per liter.
ND = Not detected.
NM = New Mexico.
QC = Quality control.
SWMU = Solid Waste Management Unit.
TCLP = Toxicity characteristic leaching procedure.
USACE = U.S. Army Corps of Engineers.
WF = Wood floor.
WSMR = White Sands Missile Range.

Table 4-9
Confirmation Soil Sampling Results, Site Closeout Report[a]
SWMU 156 (WSMR-57) Pesticide Storage Shed
White Sands Missile Range, NM

			TCLP Herbicides (EPA Methods 1311 and 8150A) [b]		TCLP Pesticides (EPA Methods 1311 and 8080) [b]							TCLP Metals (EPA Methods 1311, 6010, 7470, and 7740) [b]							
Sample Name	Sample Date	Sample Depth (ft bgs)	2,4-D (mg/L)	2,4,5-TP (Silvex) (mg/L)	Lindane (mg/L)	Heptachlor (mg/L)	Heptachlor Epoxide (mg/L)	Endrin (mg/L)	Methoxychlor (mg/L)	Chlordane (mg/L)	Toxaphene (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Mercury (mg/L)	Selenium (mg/L)	Silver (mg/L)
Regulatory Limit [c]			10.0	1.0	0.4	0.008	0.008	0.02	10.0	0.03	0.5	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0
156B1-2	2/24/1995	2	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	<0.0020	<0.50	0.35	<0.10	<0.20	<0.50	<0.005	<0.50	<0.010
156B2-2	2/24/1995	2	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	<0.0020	<0.50	0.34	<0.10	<0.20	<0.50	<0.005	<0.50	<0.010
156B2-2 QC	2/24/1995	2	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	<0.0020	<0.50	0.31	<0.10	<0.20	<0.50	<0.005	<0.50	<0.010
156B3-2	2/24/1995	2	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	<0.0020	<0.50	0.41	<0.10	<0.20	<0.50	<0.005	<0.50	<0.010

[a] Dow Environmental, Inc., 1996, Close Out Report, SWMU 80 - Dried Sludge Piles, SWMU 90 -Waste Accumulation Area, SWMU 140 - LC 37 Paint Dump, SWMU 153 - Vandal Site at Hazardous Test Area, SWMU 156 - Pesticide Shed at WSMR Golf Course, White Sands Missile Range, New Mexico, USACE Contract DACA56-93-D-0016, DEI Project No. 6015.

[b] Test Methods for Evaluating Solid Waste, Second Edition, Office of Solid Waste Manual SW-846.

[c] Maximum concentration of contaminants for the toxicity characteristic, 40 Code of Federal Regulations 261.24, Table 1.

< = Less than the indicated laboratory reporting limit.
2,4-D = 2,4-Dichlorophenoxyacetic acid.
2,4,5-T = Silvex.
bgs = Below ground surface.
CAS = Chemical abstracts.
EPA = U.S. Environmental Protection Agency.
ft = Foot (feet).
mg/L = Milligrams per liter.
NE = Not established.
NM = New Mexico.
NMED = New Mexico Environment Department.
QC = Quality control.
SWMU = Solid Waste Management Unit.
TCLP = Toxicity Characteristic Leaching Procedure.
USACE = U.S. Army Corps of Engineers.
WSMR = White Sands Missile Range.

Table 5-1
Initial Landfill Sampling Results
SWMU 163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

Analyte	Sample Identification	Sample Date	Result	Detection Limit	Regulatory Limit	Unit
Halogenated Organic Compounds by EPA Method 8021[a]						
1,1,1-Trichloroethane	SOIL-COMM VII	8/9/1994	ND	0.002	15,600 [b]	mg/kg
	SOIL-COMM VIII	8/9/1994	ND			
Methylene chloride	SOIL-COMM VII	8/9/1994	ND	0.10	409 [b]	mg/kg
	SOIL-COMM VIII	8/9/1994	ND			
Tetrachloroethene	SOIL-COMM VII	8/9/1994	ND	0.002	7.02 [b]	mg/kg
	SOIL-COMM VIII	8/9/1994	ND			
Trichloroethylene	SOIL-COMM VII	8/9/1994	ND	0.004	8.77[b]	mg/kg
	SOIL-COMM VIII	8/9/1994	ND			
Trichlorofluoromethane	SOIL-COMM VII	8/9/1994	ND	0.05	1,410 [b]	mg/kg
	SOIL-COMM VIII	8/9/1994	ND			
Total Metals by EPA Method 6010[a]						
Arsenic (total)	SOIL-COMM II	8/9/1994	ND	2	3.90 [b]	mg/kg
	SOIL-COMM IV	8/9/1994	ND			
	SOIL-COMM VI	8/9/1994	ND			
Barium (total)	SOIL-COMM II	8/9/1994	131	5	15,600 [b]	mg/kg
	SOIL-COMM IV	8/9/1994	65			
	SOIL-COMM VI	8/9/1994	42			
Cadmium (total)	SOIL-COMM II	8/9/1994	ND	1	70.30[b]	mg/kg
	SOIL-COMM IV	8/9/1994	ND			
	SOIL-COMM VI	8/9/1994	ND			
Chromium (total)	SOIL-COMM II	8/9/1994	ND	2	117,000 as Chromium III [b]	mg/kg
	SOIL-COMM IV	8/9/1994	ND			
	SOIL-COMM VI	8/9/1994	5.7			
Lead (total)	SOIL-COMM II	8/9/1994	**16,200**	2	400 [b]	mg/kg
	SOIL-COMM IV	8/9/1994	340			
	SOIL-COMM VI	8/9/1994	61			

Table 5-1 (Continued)
Initial Landfill Sampling Results
SWMU 163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

Analyte	Sample Identification	Sample Date	Result	Detection Limit	Regulatory Limit	Unit
Metals by EPA Method 6010[a] (Continued)						
Mercury (total)	SOIL-COMM II	8/9/1994	ND	0.2	15.60 [b]	mg/kg
	SOIL-COMM IV	8/9/1994	ND			
	SOIL-COMM VI	8/9/1994	ND			
Selenium (total)	SOIL-COMM II	8/9/1994	ND	1	391 [b]	mg/kg
	SOIL-COMM IV	8/9/1994	ND			
	SOIL-COMM VI	8/9/1994	ND			
Silver (total)	SOIL-COMM II	8/9/1994	ND	2	391 [b]	mg/kg
	SOIL-COMM IV	8/9/1994	ND			
	SOIL-COMM VI	8/9/1994	ND			
TCLP Metals by EPA Methods 1311 and 6010[a]						
Arsenic	SOIL-COMM I	8/9/1994	ND	2	5 [c]	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	ND			
Barium	SOIL-COMM I	8/9/1994	ND	5	100 [c]	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	ND			
Cadmium	SOIL-COMM I	8/9/1994	ND	1	1.0 [c]	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	ND			
Chromium	SOIL-COMM I	8/9/1994	ND	2	5.0 [c]	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	ND			
Lead	SOIL-COMM I	8/9/1994	**37**	2	5.0 [c]	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	2.4			
Mercury	SOIL-COMM I	8/9/1994	ND	0.2	0.2 [c]	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	ND			

Table 5-1 (Continued)
Initial Landfill Sampling Results
SWMU 163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

Analyte	Sample Identification	Sample Date	Result	Detection Limit	Regulatory Limit	Unit
TCLP Metals by EPA Methods 1311 and 6010[b] (Continued)						
Selenium	SOIL-COMM I	8/9/1994	ND	1	1.0	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	ND			
Silver	SOIL-COMM I	8/9/1994	ND	2	5.0	mg/L
	SOIL-COMM III	8/9/1994	ND			
	SOIL-COMM V	8/9/1994	ND			

*Values in **bold** exceed the regulatory limit.*

[a] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[b] Regulatory limit is the NMED residential SSL from NMED, "Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, NMED.

[c] Regulatory limit is the maximum concentration of contaminants for the Toxicity Characteristic Leaching Procedure, 40 Code of Federal Regulations 261.24, Table 1.

EPA = U.S. Environmental Protection Agency.
mg/kg = Milligram(s) per kilogram.
mg/L = Milligram(s)/liter.
ND = Not detected.
NM = New Mexico.
NMED = New Mexico Environment Department.
SSL = Soil screening level.
SWMU = Solid Waste Management Unit.
WSMR = White Sands Missile Range.

Table 5-2
Confirmation Soil Sampling Results for Commissary Landfill Trench
SWMU 163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

Sample Number	Sampling Date	Total Metals (EPA Method 6010)[a]													
		Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Zinc (mg/kg)
Detection Limit		0.50	0.50	10.0	2.5	2.5	5.0	2.5	10.0	0.50	2.5	0.50	2.5	0.50	2.5
Regulatory Limit[b]		31.3	3.90	15,600	156	70.30	117,000[c]	3,130	400	15.60[d]	1,560	391	391	0.78	23,500
Confirmatory Soil Samples															
CLT-1	9/26/1994	ND	0.90	55	ND	ND	5.0	12	24	ND	4.0	ND	ND	ND	50
CLT-2S	9/26/1994	ND	0.61	61	ND	ND	ND	8.0	ND	ND	6.0	ND	ND	ND	18
CLT-3	9/26/1994	ND	1.1	66	ND	ND	ND	24	25	ND	7.0	ND	ND	ND	83
CLT-4	9/27/1994	ND	0.86	81	ND	ND	5.0	19	34	ND	13.0	ND	ND	ND	89
CLT-5	9/27/1994	ND	1.2	53	ND	ND	ND	18	22	ND	8.0	ND	ND	ND	73
CLT-6S	9/27/1994	ND	0.58	48	ND	ND	ND	8.0	13	ND	8.0	ND	ND	ND	30
CLT-7	9/28/1994	ND	0.77	51	ND	4.0	ND	6.0	15	ND	7.0	ND	ND	ND	21
CLT-8	9/28/1994	ND	1.2	78	ND	5.0	ND	91	33	ND	8.0	ND	ND	ND	47
CLT-9	9/28/1994	ND	0.64	52	ND	5.0	ND	6.0	18	ND	6.0	ND	ND	ND	27
CLT-10	9/28/1994	ND	0.74	41	ND	ND	ND	5.0	17	ND	6.0	ND	ND	ND	25
CLT-11S	9/28/1994	ND	0.84	67	ND	ND	ND	7.0	17	ND	6.0	ND	4.0	ND	29
CLT-12S	9/28/1994	ND	1.3	98	ND	ND	ND	8.1	20	ND	9.0	ND	ND	ND	30
CLT-13S	9/28/1994	ND	1.5	140	ND	ND	ND	8.0	19	ND	9.0	ND	ND	ND	31
CLT-14S	9/28/1994	ND	1.1	79	ND	ND	ND	4.0	16	ND	7.0	ND	ND	ND	21
CLT-15	9/29/1994	ND	1.3	76	ND	ND	ND	11	53	ND	9.0	ND	ND	ND	34
CLT-16	9/29/1994	ND	1.4	79	ND	ND	ND	5.0	19	ND	8.6	ND	ND	ND	27
CLT-17	9/29/1994	ND	1.0	62	ND	ND	ND	9.0	19	ND	8.0	ND	ND	ND	28
CLT-18	9/29/1994	ND	1.5	73	ND	ND	ND	31	42	ND	7.0	ND	ND	ND	68
CLT-19	9/29/1994	ND	1.1	70	ND	ND	ND	6.0	29	ND	6.0	ND	ND	ND	52
CLT-20	9/29/1994	ND	0.58	29	ND	ND	ND	7.0	24	ND	6.0	ND	ND	ND	31
CLT-21	9/29/1994	ND	0.69	47	ND	ND	ND	7.0	19	ND	7.0	ND	ND	ND	54
CLT-22	9/29/1994	ND	0.59	63	ND	ND	ND	9.0	19	ND	9.0	ND	ND	ND	32

[a] *"Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.*
[b] *"Risk Assessment Guidance for Site Investigation and Remediation, Volume I, Tier 1: Soil Screening Guidance Technical Background Document," Table A-1, February 2012, New Mexico Environment Department.*
[c] *As trivalent chromium.*
[d] *As elemental mercury.*
mg/kg = Milligram(s) per kilogram.
ND = Not detected.
NM = New Mexico.
RCRA = Resource Conservation and Recovery Act.
SWMU = Solid Waste Management Unit.
WSMR = White Sands Missile Range.

Table 5-3
Waste Characterization Results for Landfill Trench Material
SWMU-163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

	TCLP Metals (EPA Methods 1311 and 6010) [a]				
Roll-Off Bin Number	**Arsenic (mg/L)**	**Barium (mg/L)**	**Cadmium (mg/L)**	**Lead (mg/L)**	**Silver (mg/L)**
Detection Limit	0.01	0.2	0.05	0.32	0.05
Regulatory Limit[b]	5	100	1	5	5
B-50G	ND	0.7	0.06	ND	ND
B-513	ND	ND	ND	0.32	ND
B-528	ND	0.25	ND	ND	ND
B-561	ND	0.39	ND	0.46	ND
B-563	ND	ND	0.05	2.7	ND
B-589	ND	0.51	ND	0.27	ND
B-628	ND	ND	ND	**8.3**	ND
B-641	ND	ND	0.05	**8.4**	ND
B-655	ND	0.68	ND	1.4	ND
B-675	ND	0.6	ND	ND	ND
B-688	ND	0.66	ND	0.46	ND
B-692	ND	0.49	ND	ND	ND
B-706	ND	0.45	ND	0.2	0.05
B-713	ND	0.45	ND	0.83	ND
B-755	ND	ND	ND	0.36	ND
B-764	ND	0.34	ND	ND	ND
B-771	ND	0.4	ND	0.55	ND
B-789	ND	0.33	ND	0.2	ND
B-797	ND	0.42	ND	ND	ND
B-805	ND	0.67	ND	0.35	ND
B-810	ND	0.54	0.1	1.1	ND
B-812	ND	0.53	ND	0.27	ND
B-828	ND	0.49	ND	0.5	ND
B-852	ND	ND	ND	2	ND
B-854	ND	0.26	ND	ND	ND

Table 5-3 (Continued)
Waste Characterization Results for Landfill Trench Material
SWMU-163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

	TCLP Metals (EPA Methods 1311 and 6010) [a]				
Roll-Off Bin Number	**Arsenic (mg/L)**	**Barium (mg/L)**	**Cadmium (mg/L)**	**Lead (mg/L)**	**Silver (mg/L)**
Detection Limit	0.01	0.2	0.05	0.32	0.05
Regulatory Limit[b]	5	100	1	5	5
B-868	ND	0.48	ND	**15**	ND
B-872	ND	0.47	ND	ND	ND
B-877	ND	0.35	ND	ND	ND
B-888	ND	0.35	ND	0.7	ND
B-890	ND	ND	ND	3.4	ND
B-915	ND	0.43	ND	0.23	ND
B-918	ND	0.59	ND	0.29	ND
B-936	ND	0.7	ND	0.23	ND
B-960	ND	0.47	ND	ND	ND
B-962	ND	0.64	ND	0.22	ND
B-965	ND	0.58	ND	0.48	ND
B-972	ND	0.47	ND	ND	ND
B-974	ND	0.61	ND	2.1	ND
B-998	ND	0.26	ND	ND	ND
B-1007	ND	0.57	ND	0.49	ND
B-1010	ND	0.33	ND	ND	ND
B-1020	ND	0.31	ND	ND	ND
B-1028	ND	0.69	ND	0.29	ND
B-1032	ND	ND	ND	0.43	ND
B-1034	ND	0.5	ND	1.7	ND
B-1036	ND	ND	ND	1.3	ND
B-1038	ND	0.66	ND	0.49	ND
B-1040	ND	0.76	ND	0.34	0.05
B-1041	ND	0.6	ND	0.21	ND
B-1042	ND	0.72	ND	0.94	ND
B-1046	ND	0.66	ND	ND	ND

Table 5-3 (Continued)
Waste Characterization Results for Landfill Trench Material
SWMU-163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

	TCLP Metals (EPA Methods 1311 and 6010) [a]				
Roll-Off Bin Number	**Arsenic (mg/L)**	**Barium (mg/L)**	**Cadmium (mg/L)**	**Lead (mg/L)**	**Silver (mg/L)**
Detection Limit	0.01	0.2	0.05	0.32	0.05
Regulatory Limit[b]	5	100	1	5	5
B-1051	ND	0.73	ND	2.1	ND
B-1056	ND	0.85	ND	**6.7**	ND
B-1063	ND	ND	ND	0.48	ND
B-1064	ND	0.26	ND	0.3	ND
B-1065	ND	0.26	ND	**10**	ND
B-1066	ND	0.56	ND	0.44	ND
B-1067	ND	0.56	ND	1	ND
B-1068	0.02	0.62	ND	**52**	ND
B-1069	ND	0.31	ND	0.77	ND
B-1070	ND	0.6	ND	1.2	ND
B-1071	ND	0.23	ND	ND	ND
B-1072	ND	0.52	ND	0.26	ND
B-1073	ND	0.59	ND	2.1	ND
B-1074	ND	0.49	ND	ND	ND
B-1075	ND	0.46	ND	ND	ND
B-1076	ND	0.64	ND	**11**	ND
B-1077	ND	0.53	ND	ND	ND
B-1078	ND	ND	0.06	1.8	ND
B-1079	ND	0.67	ND	0.42	ND
B-1080	ND	0.63	ND	ND	ND
B-1081	ND	0.69	ND	ND	ND
B-1082	ND	0.68	ND	0.41	ND
B-1083	ND	0.65	ND	ND	ND
B-1084	ND	0.26	ND	1.3	ND
B-1085	ND	0.59	ND	2.9	ND
B-1086	ND	0.58	ND	3.5	ND

Table 5-3 (Continued)
Waste Characterization Results for Landfill Trench Material
SWMU-163 (WSMR-72) Petition for Corrective Action Complete
White Sands Missile Range, NM

	TCLP Metals (EPA Methods 1311 and 6010) [a]				
Roll-Off Bin Number	**Arsenic (mg/L)**	**Barium (mg/L)**	**Cadmium (mg/L)**	**Lead (mg/L)**	**Silver (mg/L)**
Detection Limit	0.01	0.2	0.05	0.32	0.05
Regulatory Limit[b]	5	100	1	5	5
B-1087	ND	0.74	ND	2.7	ND
B-1088	ND	0.41	ND	1.8	ND
B-1089	ND	0.53	ND	0.35	ND
B-1090	ND	0.72	ND	ND	ND

*Note: Values in **bold** exceed regulatory limit.*

[a] "Test Methods for Evaluating Solid Waste," Second Edition, Office of Solid Waste Manual SW-846.

[b] Maximum concentration of contaminants for the Toxicity Characteristic Leaching Procedure, 40 Code of Federal Regulations 261.24, Table 1.Toxicity Characteristic Leaching Procedure Test Method 1311, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA Publication SW-846.

EPA = U.S. Environmental Protection Agency.
ND = Not detected.
NM = New Mexico.
mg/L = Milligram(s) per liter.
SWMU = Solid Waste Management Unit.
TCLP = Toxicity Characteristic Leaching Procedure.
WSMR = White Sands Missile Range.

Appendix A-1
SWMU 107 (WSMR-35):
1990 Rinchem Company, Inc. Tank Closure Report

RINCHEM COMPANY, INC.
6133 EDITH BOULEVARD NE
ALBUQUERQUE, NM 87107
PHONE (505) 345-3655

FINAL REPORT

US ARMY CORPS OF ENGINEERS
WHITE SANDS MISSILE RANGE, NEW MEXICO
TEMPERATURE TEST FACILITY CLOSURE PLAN
TANK CLEANING SUBCONTRACT
WORK DATES:
MAY 22-25, 1990

SUBMITTED BY: RINCHEM COMPANY INC.
6133 Edith Blvd
Albuquerque, NM 87107

SUBMITTED TO: Smith & Aguierre
P.O. Box 2276
Las Cruces, NM 88004
Mr. Lyndon Fruit
with copy to Marvin Mathis

SCOPE OF WORK: Cleaning and testing of storage tanks and ancillary equipment used for the containment and transport of methylene chloride at the Temperature Test Facility. Underground pipelines to be disposed of also to be cleaned in accordance with this procedure.

HOURS AND PERSONNEL: 48 total hours spent by crew on job - see attachment A

Team Leader: Gary Michaelson
Technician: Neil Day
Technician: Gil Fried
Safety Professional: Margo A. Watkins

MAY 22, 1990: Onsite survey of tanks, sump, and contamination area to be plastic sheeting coated berm-to-berm.

MAY 23, 1990: Plastic sheeting laid out over entire work surface area. Duct tape used on seams. Sump in NE corner of work site completely lined. 10-mil black plastic laid down four layers deep in prime work area and two layers deep in less used area of the work site.

Smith & Aguierre personnel assisted in rolling tanks over so they each were slanted with site - downhill to north - and ports exposed on East side for access.

MAY 23, 1990: (cont.)

All port covers removed - three each per tank. Gastech Model GX-82 triple range gas monitor was placed by hand inside each of the tanks and readings noted: at ports utilizing squeeze bulb and sample probe inside approximately 3 feet the readings indicated NO FLAMMABLE/ EXPLOSIVE GAS LEVELS - NO ELEVATION OR REDUCTION IN OXYGEN LEVELS - AND NO CARBON MONOXIDE.

Ventilator fan was attached to the north end ports of the tanks and allowed to run for over 20 minutes per tank which would represent over 6 air changes per tank.

A reading of 13-20 ppm Carbon Monoxide picked up from in and around tanks - heavy equipment working adjacent to the work site was noted as source.

Entry of the large tank (#4) was authorized by Safety Officer Watkins. Technicians entered suited up in: Positive Pressure full face respirators on supplied air, PVC gloves and liners, Tyvek full coveralls, PVC knee boots-steel toe, safety glasses and hard hat.

A hot steam wash of water and TCP (low sudsing, biodegradable) soap was used on the interior of all four tanks.

Water was tested for pH and Chlorinated. The pH tested neutral on Tanks 1-3 and ranged from 11-7 on Tank 4. No chlorinated materials were detected using the Bellestein copper wire test method.

An explosion-proof light was hung in Tank 4 during work. A lifeline was attached to personnel before entering Tank 4 and one person continually observed person inside from the outside looking through the center porthole on the tank. Submersible pump used in North end to fill drums.

Work periods allowed in Tank 4 was 10 minutes per person. Pulse monitored, Gatorade administered and cold compress pressed on pulse points. Workers required to rest in shade until physical state allowed reentry.

Samples taken from all four tanks, labeled, chain of custody forms completed, samples iced down and packed in cooler with vermiculite and shipped via Federal Express overnight to National Analytical Laboratories in Tulsa, Oklahoma to comply with the 48-hour sample hold time as requested in the contract.

Samples from Tanks 1-3 represented the third hot steam rinse. The sample from Tank 4 represented the first rinse hot water. The level of dirt-like material present only in Tank 4 required much more time and work than required in Tanks 1-3.

May 24, 1990: Tank 4 entry procedures followed as previous day with entry authorization given by Safety Officer Watkins. The mud/dirt substance was shoveled out of tank into steel drums. Because of the heat stress potential, work periods were monitored at 15-minute periods. An ice-vest was utilized by tank entry personnel. Rinse water used throughout day alternated between hot and cold. Sludge was shoveled and pumped via spark-proof shovels and heavy duty sludge pump. A total of four complete rinses were completed on Tank 4 with all rinseate being pumped into 55-gallon steel drums. Onsite records maintained by Watkins noting drum contents, drum number, and Tank source number.

May 25, 1990: Final rinse of Tank 4 - all particulate material had been removed the day previous. Final rinse water contained drum #11. All drums tested for pH, numbered, labeled and moved to plastic sheeted area on the northeast end of the worksite. See Attachment B - Tank and Drum Inventory.

Since site contractor personnel were not available to move the 4 tanks off of the plastic sheeting liner, 4 open head steel drums were left with contractor for waste plastic.

One additional small scrap white tank was steam cleaned on the plastic lined area at the request of the site contractor.

The used copper pipes were moved onto the plastic and each pipe was steam cleaned and rinsed inside and outside. The water that drained into the sump at the northeast corner of the worksite had evaporated during the days onsite. There was no water to be pumped out of the sump.

Drums and site secure, check out with M. Mathis, site contractor contact.

Respectfully submitted,

Margo A. Watkins

Margo A. Watkins
Technical Representative
Rinchem Company, Inc.

Attachments:
A - Hours
B - Tank and Drum Inventory
C - NAL test results from TANK 1
D - NAL test results from TANK 2
E - NAL test results from TANK 3
F - NAL test results from TANK 4

ATTACHMENT A

WHITE SANDS MISSILE RANGE TANK CLEANING JOB - MAY 22-25, 1990

PRIME CONTRACTOR: Smith & Aguierre SUBCONTRACTOR: Rinchem Company, In

HOURS AND PERSONNEL ASSIGNED TO JOB:

PERSONNEL:
Gary Michaelson, Team Leader
Rinchem Company, Inc.
Neil Day, Lead Technician
Rinchem Company, Inc.
Gil Fried, Technician
Rinchem Company, Inc.
Margo A. Watkins, Safety Professional
Rinchem Company, Inc.

HOURS:	May 22, 1990	Depart ABQ	11:00 am	
		Work Site Survey	5:00 pm - 6:00 pm	
		Hotel check-in	7:00 pm	
	May 23, 1990	Depart Hotel	5:30 am	
		Arrive Site	7:00 am	
		Leave Site	4:30 pm	(To Federal Express)
		Arrive Hotel	6:30 pm	
	May 24,1990	Depart Hotel	5:30 am	
		Arrive Site	7:00 am	
		Leave Site	6:30 pm	
		Arrive Hotel	7:30 pm	
	May 25, 1990	Depart Hotel	6:00 am	
		Arrive Site	8:00 am	
		Leave Site	12:30 pm	
		Arrive ABQ	7:30 pm	

RINCHEM COMPANY, INC.
6133 EDITH BOULEVARD NE
ALBUQUERQUE NM 87107
PHONE (505) 345-3655

ATTACHMENT B

WHITE SANDS MISSLE RANGE TANK CLEANING JOB

MAY 22, 1990 - MAY 25, 1990 PRIME CONTRACTOR: SMITH & AGUIERRE

TANK INVENTORY:

Tank #4 46' long X 11' Diameter

Steel with three ports, inside ladder and outside ladder and liner material

Analytical test: 3.8 ppm Toluene

Action: Tank rinsed with clean H_2O four additional times (this action was after sample was taken).

TANK #3, #2, #1 22' long X 72" Diameter

Stainless steel tanks with three ports

Analytical test: none of the suspect target five chemicals found

Action: The three rinses on each of these tanks was sufficient to completely clean them

DRUM INVENTORY:

DRUM NUMBER	DRUM TYPE	pH	TANK	DRUM NUMBER	DRUM TYPE	pH	TANK
1	17E	10	4	16	17E	9	4
2	17E	10	4	17	17E	9	4
3	17E	9	4	18	17E	9	4
4	17E	9	4	19	17E	9	4
5	17E	9	4	20	17H	10	4
6	17E	10	4	21	17H	10	4
7	17E	11	4	22	17H	10	4
8	17E	11	4	23	17H	N/A	*
9	17E	10	4	24	17E	6	1
10	17E	10	4	25	17E	7	1
11	17E	7	4	26	17H	N/A	*
12	17E	9	4	27	17H	N/A	*
13	17E	10	4	28	17H	N/A	*
14	17E	10	4	29	17H	N/A	*
15	17E	10	4				

17E = drum with bungs

17H = drum with flat top

*** = tyvek, gloves, respirator cartridges and tape

** = plastic sheeting used as liner

NATIONAL ANALYTICAL LABORATORIES

A Division of U.S. POLLUTION CONTROL INC.

RINCHEM ATTACHMENT C

GARY MICHAELSON
RINCHEM
6133 EDITH BLVD. N.E.

ALBUQUERQUE, NM 87107

PORT NUMBER: 6816A01

MPLE IDENTIFICATION: 6816-01
STOMER IDENTIFICATION: #1
E SAMPLED:
E OF MATERIAL: WATER

DATE RECEIVED: 5/24/90
DATE COMPLETED: 5/25/90

AMETER	REF. METHOD	DET. LIMIT	RESULT
THYLENE CHLORIDE	EPA 8021	1.0 MG/L	BDL MG/L
RACHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L
LUENE	EPA 8021	1.0 MG/L	BDL MG/L
,1,1-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
,2-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
CHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L

DL = BELOW DETECTION LIMIT

4022 South 49th West Avenue • Tulsa, Oklahoma 74107 • (918) 446-1162

NATIONAL ANALYTICAL LABORATORIES
A Division of
US POLLUTION CONTROL INC.

RINCHEM ATTACHMENT D

GARY MICHAELSON
RINCHEM
6133 EDITH BLVD. N.E.

ALBUQUERQUE, NM 87107

EPORT NUMBER: 6816A01

PAGE 2

AMPLE IDENTIFICATION: 6816-02
USTOMER IDENTIFICATION: #2
E SAMPLED:
E OF MATERIAL: WATER

DATE RECEIVED: 5/24/90
DATE COMPLETED: 5/25/90

AMETER	REF. METHOD	DET. LIMIT	RESULT
HYLENE CHLORIDE	EPA 8021	1.0 MG/L	BDL MG/L
RACHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L
OLUENE	EPA 8021	1.0 MG/L	BDL MG/L
1,1-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
,2-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
CHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L

DL = BELOW DETECTION LIMIT

1322 South 19th West Avenue • Tulsa, Oklahoma 74107 • (918) 446-1162

NATIONAL ANALYTICAL LABORATORIES

A Division of US POLLUTION CONTROL INC

RINCHEM ATTACHMENT 2

GARY MICHAELSON
RINCHEM
6133 EDITH BLVD. N.E.

ALBUQUERQUE, NM 87107

ORT NUMBER: 6815A01

PAGE 3

PLE IDENTIFICATION: 6815-03
STOMER IDENTIFICATION: #3
TE SAMPLED:
E OF MATERIAL: WATER

DATE RECEIVED: 5/24/90
DATE COMPLETED: 5/25/90

RAMETER	REF. METHOD	DET. LIMIT	RESULT
ETHYLENE CHLORIDE	EPA 8021	1.0 MG/L	BDL MG/L
ETRACHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L
OLUENE	EPA 8021	1.0 MG/L	BDL MG/L
,1,1-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
,1,2-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
RICHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L

BDL = BELOW DETECTION LIMIT

4322 South 49th West Avenue • Tulsa, Oklahoma 74107 • (918) 446-1162

NATIONAL ANALYTICAL LABORATORIES
Division of
U.S. POLLUTION CONTROL, INC.

RINCHEM ATTACHEMENT F

GARY MICHAELSON
RINCHEM
6133 EDITH BLVD. N.E.

ALBUQUERQUE, NM 87107

PAGE 4

ORT NUMBER: 6816A01

DATE RECEIVED: 5/24/90
DATE COMPLETED: 5/25/90

PLE IDENTIFICATION: 6816-04
STOMER IDENTIFICATION: #4
TE SAMPLED:
E OF MATERIAL: WATER

RAMETER	REF. METHOD	DET. LIMIT	RESULT
ETHYLENE CHLORIDE	EPA 8021	1.0 MG/L	BDL MG/L
ETRACHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L
LUENE	EPA 8021	1.0 MG/L	3.8 MG/L
,1,1-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
,1,2-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
CHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L

DL = BELOW DETECTION LIMIT

Appendix A-2
SWMU 107 (WSMR-35):
1990 TTF Closure Report

RECEIVED
AUG 2003
NMED Hazardous
Waste Bureau

White Sands Missile Range, New Mexico

TEMPERATURE TEST FACILITY

SPILL SITE CLOSURE

October 1990

ENCLOSURES

Certificate of Closure	Enclosure 1
Certificate of Facility Owner/Operator	Enclosure 2
Construction Quality Assurance (CQA) Officer Report	Enclosure 3
CQA Personal Qualifications Statement	Enclosure 4
Final Closure Report	Enclosure 5
Survey Plat	Enclosure 6
Certified Test Reports	Enclosure 7

IMS INTER-MECHANICAL SYSTEMS **IMS**
CONSULTING ENGINEERS

4336 Donnybrook Ln. • El Paso, TX 79902

18 October 1990

New Mexico Health and Environmental Department
Environmental Improvement Division
1190 St. Frances Drive
Santa Fe, New Mexico 87503
ATTN: Ms. Suzanne Moore-Mayne

Subject: Certification of Closure
Temperature Test Facility
White Sands Missile Range, NM
88002

Reference: U.S. Army Corp Of Engineers Solicitation No. DACA63-89-0309 (14 December 1989) and Proposed Closure Plan Approval, EPA I.D. No. NM2750211235

Dear Ms. Moore-Mayne:

Herewith, I certify that the specified area of the Temperature Test Facility has been closed in accordance with the above referenced documents. Furthermore, the specified site of closure is correct. The overall workmanship on this project was good in all aspects.

EDWARD C. HANSEL
NEW MEXICO
7806
REGISTERED PROFESSIONAL ENGINEER

E.C. Hansel, P.E.

TEMPERATURE TEST FACILITY
OWNER-OPERATOR CERTIFICATION
SPILL SITE CLOSURE

WHITE SANDS MISSILE RANGE, NEW MEXICO 88002

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.

Richard R. Walker
Colonel, Aviation
Director, Army Materiel Test and Evaluation

Temperature Test Facility Closure Plan
NM2750211235
DACA63-89-B0309

FINAL CQA SUMMARY REPORT

Date: December 5, 1990

I was assigned to be the WSMR CQA for this project on June, 20,1990. and the project was approximately 60% complete.

1. The Clay liner Cap was 95% complete, was covered with the Flexible Membrane Liner (70% complete), 2 inch sand cushion (70% complete) and 4 inch sand layer on top of the Liner (70% complete).

I reviewed the field tests performed on the Subgrade and Clay Layer by the Soils Testing Firm (Southwest Engineering Co.) and determined the construction of the Subgrade and Clay Layer to be acceptable.

I questioned the reasoning for the additional 2 inches of sand layer on the Flexible Membrane (the specifications called for 2 inches, not 4 inches). The answer I was given was that the Contractor volunteered the additional 2 inches of sand to protect the Membrane from the possibility of damage during the remainder of the construction.

I monitored the remainder of the construction of the Clay Layer and Flexible Membrane placement and found it to meet the plans and specifications and the intent of sealing the contaminated area.

There was one instance where storm water was running off of one of the existing concrete slabs on the East side of the building and a portion of the water was filtrating between the slab and concrete curb through a construction joint. The water filtrated down beneath the new clay layer, causing the clay layer to become super saturated. An area approximately 100 square feet of the clay layer was removed and replaced, the construction joint, allowing the leak, was sealed with a latex sealant and the problem was solved before the Flexible Membrane was installed against the concrete curb.

The splicing, fitting and sealing of the Flexible membrane around the concrete structures east of the building and the concrete drain ditches were performed in a good workmanship manner and met the procedures outlined in the specifications.

2. The specifications for the Porous Base Course located on top of the sand layer had to be modified to meet the 10 to the minus 7 permeability requirement. All of the aggregate passing the #4 screen had to be scalped out of the specified base course to meet this criteria.

3. The contractor began the processing of the Cement Treated Base Course with a farm disk; however he found the process was to slow and changed to a "Bomag" scarifier.

The densities taken of the Cement Treated Base Course passed the required 95% minimum.

The contractor choose to place a weak concrete around the existing electrical transformer pads in lieu of Cement treated Base Course, because of the difficulty of attempting to place the Treated Base Course by hand. Test Cylinders of the weak concrete were taken and they broke at approximately 2000 psi, which exceeds the normal range of Cement Treated Base Course.

There were periodic rain showers during the days the placement of the Cement Treated Base Course was proceeding; however they were kind to the contractor and did not impair his operation nor harm the integrity of the product.

4. There were rains after the placement of the 2 inch Rock Blanket over the Cement Treated Base Course and the storm water drained off of the "Cap" into the newly constructed, concrete, drainage ditches in a satisfactory manner. There were some concern that storm water would wash the filter rock into the concrete ditches; however movement of the rock is negligible.

5. The old stainless steel storage tanks were washed (the wash water was dumped in the open stainless steel tank) and the tanks were taken off the site.

6. The concrete vault for the underground storage tanks was constructed before I came on the project; however I did observe the placement of the clay layer around the vault and the insulation of the tanks and that was done properly.

7. The salt brine pond was constructed according to the specifications and the two layers of Flexible Membrane appear to be impervious (the tank is holding water).

8. The tests made on the drain line leaving the building and going to the open stainless steel tank indicate the primary drain is not leaking into the covering jacket.

9. At the conclusion of the project, I noted the requirement for permeability and compressive tests be run on the Cement Treated Base Course Cap. I was informed by the testing laboratory, these tests could not be run on the material in place; so I requested and received laboratory prepared tests on the material used in the field. (encl.)

The tests proved to be excellent and I feel they represent the field conditions.

10. In Conclusion: I hereby certify the Project was constructed within substantial compliance with the plans and specifications prepared by the Corps of Engineers.

Donald R. Bell, P.E. (NM #4295)
EL-PM

PROJECT HISTORY

OF

TEMPERATURE TEST FACILITY

CLOSURE PLAN

OF

WHITE SANDS MISSILE RANGE,

NEW MEXICO

EPA I.D. No. NM 2750211235

By: E.C. Hansel P.E.

TABLE OF CONTENT

1. Job history of TTF closure.
2. Sketch - typical section of TTF- closure.
3. Certification letter.
4. Plat plan of TTF closure.
5. Correspondence (5 letters).
6. Contractor's daily activities, notes & comments.

Job History of TTF Closure

1. Cleaning of Closure Area.

Removal of: Rubbish, roots, abandoned material,etc:
3 Methylene Chloride Tanks
1 Interceptor and storage tank
1 Abandoned Tank
Approximately 60 ft 6"ø overflow pipe and 120 ft 2" ø drain pipe

2. Subgrade

Removed interceptor and storage tank, abandoned tank and and 6"ø overflow pipe Trench areas required backfilling. The backfilling of the interceptor and 6"ø overflow pipe trench did not comply with the backfill specifications and were rejected. The rework of these areas met with all requirements.

In addition, all excessive excavated soil from the new concrete vault area was evenly dispersed over the whole closure area as specified per item Nº 4 of DWG Nº PM02 8801-2003, sheet 2 (C-2), REV. E.

3. Test Clay Liner

For experimental reasons, an area approximately 150' x 100' clay liner was built up in four 6" thick lifts about 250' away from the actual construction site.

This area was used to experiment for:
- Compaction testing
- Moisture testing
- Field permeability Tests
- Clay repair testing
- Speed of Vibratory Roller

In general, this operation was very educational for all parties involved with this project, especially for the contractor.

Field Permeability Test. -- The Modified Air-Entry Permeameter (Topp and Binns, 1976) needed to perform the soil properties, classification and hydraulic conductivity Test as specified by the Temperature Test Facility Closure Plan was unavailable to the contractor. The contractor received

permission from the New Mexico Health and Environment Department to substitute Model 2800K1 Guelph Permeameter (Soilmoisture Equipment Corp., Santa Barbra, CA), Reference: EID letter, 13 April 1990. The Hydraulic Conductivity Range of Model 2800K1 is 10^{-2} to 10^{-6} cm/sec. Whereas the original specifications required a range of 10^{-7} cm/sec. The test of April ,1990 resulted in a permeability reading of 7.4×10^{-5}. The manufacturer stated that according to their previous experience with the Model 2800K1 the current results of our test would actually fall within the specified range if the recently developed attachments were available. At this point, we had exhausted all possible options of the apparatus. During the time needed to research all possible options, we were able to observe the effects of prolonged exposure of the clay layer to the elements. This gave us invaluable practical information of the integrity of the clay and we incorporated these findings into the actual procedure of laying and protecting the clay layer. Since the lab tests exceeded the specified permeability, the manufacturer had previous experience, and we were able to observe the clay in actual conditions, we concluded our field permeability test.

4. Lab Permeability Test

The lab permeability test results were excellent.

Hydraulic Conductivity:

LAB TEST RANGE	:	1.5×10^{-9} to 7.5×10^{-9} cm/sec
SPECIFIED	:	10^{-7} cm/sec or less

5. Two Feet Thick Clay Liner and Two Inch Thick Sand Layer

Prior to this work the contractor submitted a clay cap placement procedure which was refined by W.J. Cooper of Corps in Engineers and accepted by all involved parties. The clay liner was built up of four 6" thick lifts. Compaction and moisture contents were met as per specifications. In order to keep the specified moisture and integrity of the clay line and the 2" sand layer the area was sprayed twice daily with water, up until the synthetic liner was laid.

6. Thirty-Six Mil. Synthetic Liner

One day before, the Snow Company started to lay the synthetic liner. Mr.

Snow, Jerry Warner from Corps of Engineers and E.C. Hansel reviewed the specifications DACA63-89-B-0309 SECTION 02585. Mr. Snow explained his proposed installation method and testing procedure for the synthetic liner and we all agreed to it. The synthetic liner and the well pipe boots were installed per specification and manufacturers recommendation. I witnessed approximately 70% of all field seam testing. (Test Air Pressure 60 lbs was used where normally 40 lbs of pressure is used to test this type of work). Only a few areas failed the test and were repaired instantly and retested. In general, good workmanship was provided. In order to protect the liner against punctures, the decision was made to try to make a 3" thick layer rather than the specified 2" thick sand layer to guarantee that the 2"thick sand layer was achieved over the entire surface. This was especially important since the next 6" base course layer contained small stones which could puncture the synthetic liner.

7. Six Inch Thick Base Course

For reasons due to the unavailability (Actually, the reason for deviation here is that the material specified for use in the base course could NOT be processed within a reasonable cost and time frame to meet the 10^{-2} cm/sec criteria!) of the specified composition of base course, the Mew Mexico Health and Environment Department agreed the composition could somewhat deviate from the original specified composition, as long as the permeability of 10^{-2} cm/sec or greater is met. (see letter dated July 3, 1990 from Dynaspan to Ms. Moore - Mayne of the New Mexico Department of Health & Environment) The base course used is close to the specified material, with a permeability of 7.2×10^{-2} cm/sec (see report dated July 16, 1990, EID letter of 21 June 1990 and dynaspan letter nº. M & S 90-135) This 6" thick layer of base course material was spread without difficulties.

8. Six Inch Thick Portland Cement Stabilized Aggregate Base

After the final blue topping of the second layer, of 6" base course, which will be mixed in place with portland cement. I found an area approximately 4800 square feet that needed about 2" more base course material, to reach the specified elevation. The contractor corrected the situation. The original planed DISC METHOD to mix the base course with cement was replaced by using a BUMAC. The reason for the replacement was that the DISC METHOD was too slow. The mixing of both materials was very efficient and there were no problems in achieving the specified compaction. The finished surface of the finished portland cement

stabilized, aggregate base was smooth.

9. Two Inch Thick Crushed Rock/Asphalt Layers

The final layer of the crushed rocks on top of the 6" portland cement aggregate base, including the geotextile membrane liner and the asphalt layer at the TTF area were placed without any problems.

10. New Tank Vault and Concrete Ditch

All concrete was installed as per specifications and drawings with one exception. Due to the concrete enclosure in the transformer vicinity, a minor modification in the ditch depth had to be made. This modification will not effect the function of the ditch.

11. Drain Pipe System and Well Extensions

Drain pipe system and well extensions were fabricated and installed per drawings and specifications. The drain pipe system passed the test and exceeded the specified requirements.

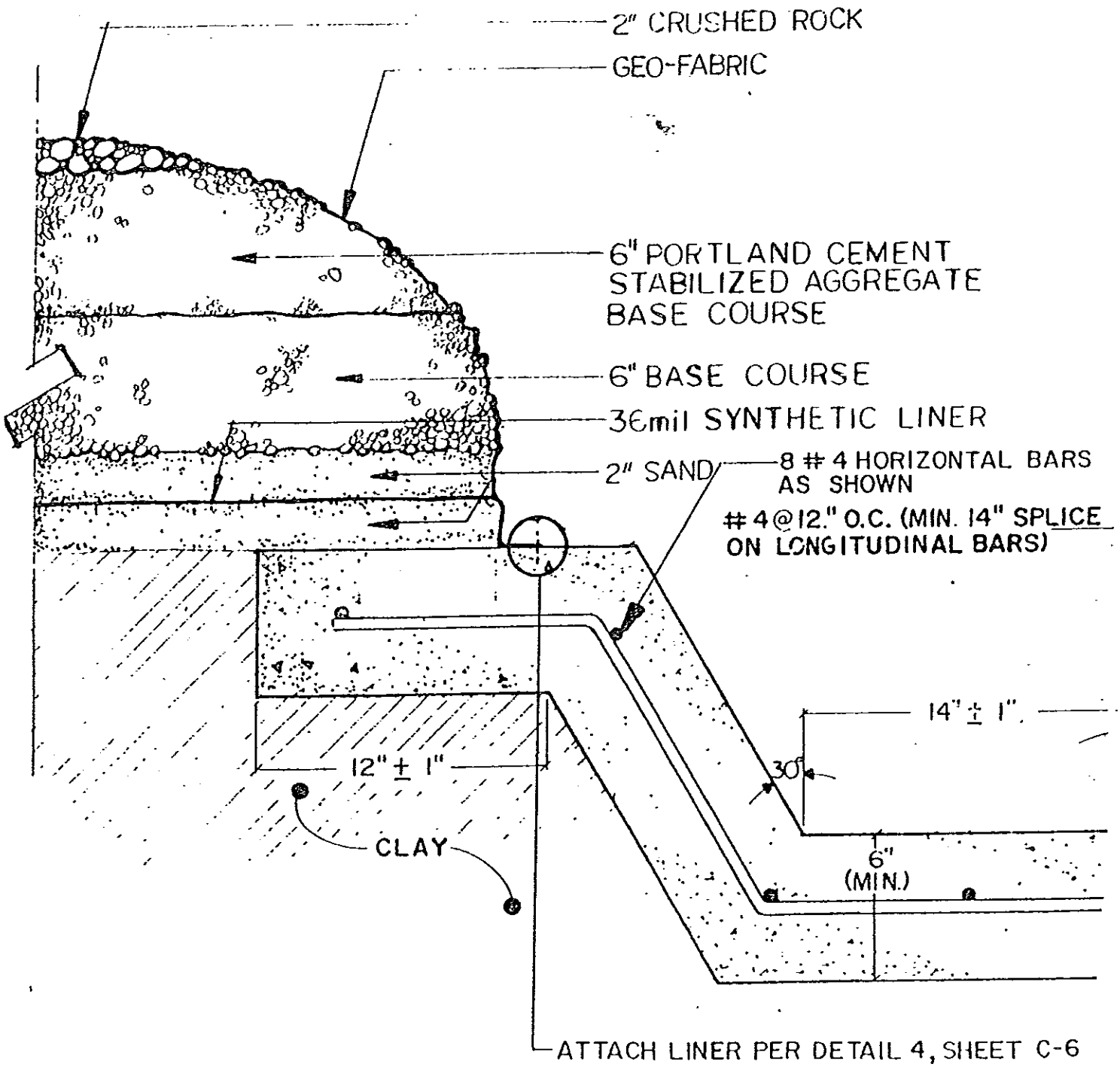
12. Cathodic Protection System

This system was installed per the construction documents. The existing rectifier station had to be relocated due to interference with the concrete ditch of the closure area.

Acknowledgements. On this project my special thanks goes to Mr. William J. Copper, Corps of Engineers and Mr. Jim Martin, TE-AE, Mr. Juan M. Ontiveros, Mr. Aaron Syers, and Mr. Don Bell, DEHL, Dynaspan for their support and coordination on this project.

General Contractor	: Smith & Aguirre Const., Inc., Las Cruces, NM.
Mechanical Contractor	: H & B Mechanical, Las Cruses, NM.
Synthetic Liner Installator	: Snow Company, Albuquerque, NM.
Electrical Contractor	: Kendrick Electric Corp., El Paso, TX.

CONSTRUCTION PERIOD : APRIL 1990 to SEPTEMBER 1990



TYPICAL SECTION OF TTF - CLOSURE

N.T.S.

IMS INTER-MECHANICAL SYSTEMS **IMS**
CONSULTING ENGINEERS

4336 Donnybrook Ln. • El Paso, TX 79902

18 October 1990

New Mexico Health and Environmental Department
Environmental Improvement Division
1190 St. Frances Drive
Santa Fe, New Mexico 87503
ATTN: Ms. Suzanne Moore-Mayne

Subject: Certification of Closure
Temperature Test Facility
White Sands Missile Range, NM
88002

Reference: U.S. Army Corp Of Engineers Solicitation No. DACA63-89-0309 (14 December 1989) and Proposed Closure Plan Approval, EPA I.D. No. NM2750211235

Dear Ms. Moore-Mayne:

Herewith, I certify that the specified area of the Temperature Test Facility has been closed in accordance with the above referenced documents. Furthermore, the specified site of closure is correct. The overall workmanship on this project was good in all aspects.

EDWARD C. HANSEL
NEW MEXICO
7866
REGISTERED PROFESSIONAL ENGINEER

E.C. Hansel, P.E.

TH-C605

New Mexico Health and Environment Department

GARREY CARRUTHERS
Governor

DENNIS BOYD
Secretary

MICHAEL J. BURKHART
Deputy Secretary

RICHARD MITZELFELT
Director

April 13, 1990

Major General Thomas J.P. Jones
Commander
U.S. Army White Sands Missile Range
White Sands Missile Range, New Mexico 88002-5076

Dear General Jones:

This letter is New Mexico Environmental Improvement Division's (EID's) response to White Sands Missile Range's (WSMR) request of EID (February 15, 1990) to use an alternative field permeameter instrument and to grant a time extension for the closure of the Temperature Test Facility.

After reading the literature provided by WSMR on the Guelph Permeameter, the instrument appears to provide equivalent or similar results of in-situ permeability as the modified air entry permeameter suggested by EID. EID will accept the Guelph Permeameter as an acceptable instrument provided WSMR ensure that the procedures for use of the instrument are followed precisely.

Additionally, the request for an extension of 42 weeks is granted in accordance with the New Mexico Hazardous Waste Management Regulations (HWMR-5, as amended 1989), Part VI, 40 CFR section 265.113(b)(1). Because WSMR has assured EID that the proposed construction schedule reflects realistic time durations, no other extension will be granted if WSMR should encounter unforseen delays. WSMR is reminded of the requirement to take and continue to take all steps necessary to prevent threats to human health and the environment during closure (Pt. VI, sec. 265.113 (b)(2).

Sincerely,

A. Elizabeth Gordon, Ph.D.

A. Elizabeth Gordon, Ph.D.
Permitting Supervisor
Hazardous Waste Program

cc: Robert Andrioli, WSMR Environmental Office
Marc Sides, EPA-Region 6

New Mexico Health and Environment Department

GARREY CARRUTHERS
Governor

DENNIS BOYD
Secretary

MICHAEL J. BURKHART
Deputy Secretary

RICHARD MITZELFELT
Director

May 10, 1990

Robert Andreolli, Environmental Quality Coordinator
U.S. Army White Sands Missile Range
Building 1740
White Sands Missile Range, New Mexico 88002

Dear Mr. Andreolli:

This letter is regarding Dr. Elizabeth Gordon's and my conversations with Mr. Hansel and Mr. Silas concerning the TTF closure currently underway. Based upon the information provided by Mr. Hansel and a review of the approved closure plan for the TTF, WSMR may proceed with the installation of the clay cap. Mr. Hansel expressed concern when he determined that the Guelph Permeameter's range only extended to a hydraulic conductivity measurement ability of 10 minus 6 cm/sec. Since the clay to be excavated for the cap material was determined to have a permeability of 2.6 x 10 minus 8 cm/sec and the final results of the laboratory test for permeability on the test cap were 10 minus 9 cm/sec, we told Mr. Hansel and Mr. Silas that the closure could continue as per the approved closure plan. Please document in the final report the problems encountered with the range of the Guelph Permeameter and the measures taken to compensate.

If you have any questions, please contact me at (505) 827-0170.

Sincerely,

Suzanne Moore-Mayne

Suzanne Moore-Mayne
Permitting Section
Hazardous Waste Program

SM/sm

New Mexico Health and Environment Department

GARREY CARRUTHERS
Governor

DENNIS BOYD
Secretary

MICHAEL J. BURKHART
Deputy Secretary

RICHARD MITZELFELT
Director

June 21, 1990

Robert Andreolli, Environmental Quality Coordinator
U.S. Army White Sands Missile Range
Building 1740
White Sands Missile Range, New Mexico 88002

Dear Mr. Anderolli:

I have had several discussions with Aaron Syers this week concerning the hydraulic conductivity of the drainage layer of the TTF closure. He had asked if the material to be used in the drainage layer could have a hydraulic conductivity of 10-4 cm/sec.

After reviewing the closure plan and EPA guidance and discussions with Dr. Elizabeth Gordon and EPA staff, the material to be used for the drainage layer will have to be permeable enough so that after compaction as specified on page 4 in section 5.2.2 of the approved closure plan, the drainage layer will be 10 -2 cm/sec or greater. I conveyed this to Mr. Syers this morning and told him I would follow up with a Fax and a letter to you confirming my response.

If you have any questions please contact me at (505) 827-0170.

Sincerely,

Suzanne Moore-Mayne

Suzanne Moore-Mayne
Permitting Section
Hazardous Waste Bureau

cc: Aaron Syers

Dynaspan
Services Company

P.O. Box 190, Building 1830
White Sands Missile Range, N.M. 88002
(505) 678-3264

M&S-90-135
3 July 1990

New Mexico Health and Environmental Department
Environmental Improvement Division
1190 St. Frances Drive
Santa Fe, New Mexico 87503
ATTN: Suzanne Moore - Mayne:

Subject: Closure For Temperature Test Facility, White Sands Missile Range, New Mexico

Dear Ms Moore - Mayne:

In conjunction with our telephone conversation this evening, I have advised the closure contractor that a clean grandular base course material will be acceptable as the base course layer for the TTF Closure. This material will meet the 10^{-2} cm/sec permeability required. However, it will not meet the specified particle sieve analysis.

The contractor is required to furnish a laboratory permeability test to show that the selected material does meet the 10^{-2} cm/sec requirement. Additionally, he is still required to stabilize the upper six inches of the base course as originally specified.

Sincerely,

Aaron A. Syers

Aaron A. Syers, Mechanical Engineer
Maintenance and Support Department

/mvp

cc: B. Andriolli
E. C. Hansel
J. Warner, USACE
D. Bell, DEHL
L. Fruitt, Smith & Aquirre
J. H. Fargason, Jr.
R. Krehoff
C. F. Dye
J. M. Ontiveros

Dynaspan
Services Company

P.O. Box 190, Building 1830
White Sands Missile Range, N.M. 88002
(505) 678-3264

M&S-90-167
20 July 1990

FAX
827-2836

New Mexico Health and Environmental Department
Environmental Improvement Division
1190 St. Frances Drive
Santa Fe, New Mexico 87503
ATTN: Ms. Suzanne Moore-Mayne

Dear Ms. Moore-Mayne:

Our Closure contractor has selected a granular material for the base course material we discussed in my letter M&S-90-135, dated 3 July 1990. As requested, a falling head permeability test was run on the material. Additionally, the contractor has supplied a sieve analysis of the material.

A copy of the test report is attached for your records.

Sincerely,

Aaron A. Syers

Aaron A. Syers, Mechanical Engineer
Maintenance and Support Department

/mvp

cc: J. Martin
B. Andriolli
E. Hansel
D. Bell
J. Warner
M. Mathis
J. H. Fargason, Jr.
C. F. Dye
R. Krehoff - AE13-9003
J. M. Ontiveros

Attachements: 2

SOUTHWEST ENGINEERING INCORPORATED

475 ARCHULETA ROAD
LAS CRUCES, NEW MEXICO 88005

PHONE (505) 526-3381
FAX (505) 526-1762

1000 ZUNI DRIVE
ALAMOGORDO, NEW MEXICO 88310

PHONE (505) 437-1501

July 16, 1990

Smith & Aguirre
Post Office Box 2276
Las Cruces, New Mexico 88004

Re: Quality Control

Submitted herewith are the following test certificates for subject project:

Task No.	Date	Certificate Number	Description
LM 02304	7-16-90	SA-G66-90	Gradation/Base Course +4 Material
		SA-PMT1-90	Permeability Test

SOUTHWEST ENGINEERING, INC.

Paul Deason

Paul Deason

PD:sym

SOUTHWEST ENGINEERING INCORPORATED

475 ARCHULETA ROAD
LAS CRUCES, NEW MEXICO 88005

PHONE (505) 526-3381
FAX (505) 526-1762

1000 ZUNI DRIVE
ALAMOGORDO, NEW MEXICO 88311

PHONE (505) 437-1501

July 16, 1990

Smith & Aguirre
Post Office Box 2276
Las Cruces, New Mexico 88004

Re: Quality Control
Task LM 02304

Summary of Laboratory Gradation Tests
Test Certificate No.: SA-G66-90
Test Type: ASTM C136

SIEVE ANALYSIS
% Passing

Date	Test No.	Location	Material	1"	3/4"	1/2"	3/8"	#4*
7-16-90	SA-G66-90	Crusher	Base Course +4 Material	100	88	53	37	0.4

*Material scalped on #4.
-#4 material discarded.

The following test results for the permeability testing were done according to the procedures set forth in the Soils Mechanics Manual, by W. T. Lamb, using the Falling Head Method:

Date	Test No.	Location	Material*	Permeability
7-16-90	SA-PMT1-90	Crusher	Base Course +4 Material	7.2×10^{-2} cem/sec

*Material scalped on #4.
-#4 material discarded.

SOUTHWEST ENGINEERING, INC.

Paul Deason

PD:sem

CONTRACTOR'S DAILY ACTIVITIES
NOTES AND COMMENTS

4/2/90 09:00 - 12:00 (E.C. Hansel's inspection time-typical)

First visit to job site.

4/5/90 09:00 - 14:00

Smith and Aguirre Construction worked on test clay area and cleanup of site.

4/6/90 09:00 - 12:00

Smith and Aguirre Construction worked on test clay area and on removal of tanks.

4/9/90 09:30 - 15:00

Asked contractor to invite me to witness compaction and moisture test. He failed to do so

As per Willie Johnson of Smith and Aguirre Construction, the contractor had planned to perform only one compaction and moisture test per lift (total 3 lifts) on the test clay liner area.

4/10/90 09:15 - 15:00

Four compaction and moisture tests were performed on test clay area.

LOWEST COMPACTION TEST	90.4
LOWEST MOISTURE TEST	17.3

4/11/90 08:00 - 12:00

Smith and Aguirre performed hole repair test on test clay liner (hole size 3' x 3' x 14" deep).

Repair Procedure:

			Compaction	Moisture
1. First lift	about 2"	10 minutes compaction time.	91.2	17.2
2. Second lift	about 6"	5 minutes compaction time.	93.4	16.8
3. Third lift	about 2"	10 minutes compaction time.	94.2	17.3
4. First lift	about 4"	5 minutes compaction time.	93.2	16.2
5. Final lift	about 2"	6 minutes compaction time.	99.2	16.3

Fill Material: the same as clay liner.
Compaction Equipment : Jumping Jack
7. Compaction Test:

SAND CONE TEST:

92.8 Compaction
16.2 % Moisture

In general, Smith and Aguirre Construction did earth work to enable them to remove the two methylene chloride storage tanks.

4/12/90 08:00 - 13:00

Smith and Aguirre Construction did excavation work to remove methylene chloride storage tanks

4/13/90 11:00 - 16:00

Dr. H.S. Oey performed the required Plat Plan survey.

At this time, I noticed that the field permeability test was being performed. (I was not notified of this test).

This test with the 50 gal.drum and float was rejected. No permeability of the clay liner could be determined. This setup was not an approved method. (See Inspection notes on field permeability test performed on April 13, 1990...)

4/16/90 08:00 - 15:30

Back fill of overflow pipe trench area:
A trench of 3' to 4' wide and 3' to 4' deep was excavated to remove a 6" ø drain pipe between the interceptor and the 90' ø evaporation pond, and was filled without any compaction. Fill time approx. 2 hrs.

Back fill of large tank area:
Each lift was approx. 2 ft thick. Test of lift Nº 8 failed and the compaction process was repeated in order to pass the test.

Back fill of storage tank area:
When the storage tank connected to the interceptor was remove, a hole approx. 25' x 20' x 10' deep remained. The first lift to close this hole was 6 ft thick.

Comments:

The back fill compaction of the trench area and the storage tank was not performed as specified.

4/17/90 08:30 - 15:00

S & A continued excavating new tank area.

4/18/90 08:00 - 11:30

Continued excavating new tank area.

4/19/90 08:30 - 12:00

Continued excavating new tank area.
Cut area around transformers (NW corner).
Filled and compacted closure (NE area).

4/20/90 08:00 - 16:00

S & A cut area around transformers (NW corner).
Filled and compacted closure (NE area).

Meeting with	B. Cooper	Corps of Engineers
	A. Syers	Dynaspan
	J. Ontiveros	Dynaspan
	P. Heick	DEHL

Subject:

1. Backfill of overflow pipe trench without compacting.
2. Backfill of storage tank area without backfill.
3. Hydraulic conductivity test method.
4. Compaction test failure of fill of NE area.

Mr. Cooper called a special meeting with the contractor and all others involved. Meeting to be held on 4/23/90.

4/23/90 08:00 - 15:00

S & A continued excavating new tank area.
Cut in NE area.
Filled and compacted several low spots.

10:00 Meeting
Subject:

1. Backfill of overflow pipe trench.
   According to the contractor this area has to be cut. No decision was made today regarding this matter.

2. Backfill of storage tank (hole approx. 10 ft deep)
   The decision was made to reexcavate a hole approx. 6 ft deep and retest. If the test fails, the contractor agreed to repair the hole without charges. If test passes, the contractor will be paid for extra work.

3. Percolation test apparatus. Needs more study.

4/24/90 08:00 - 15:00

S & A continued excavating new tank area.
Cut NW corner, filled and compacted low areas.

S & A began reexcavating storage tank hole about 6 ft deep. After the agreed depth was reached, the operator sprayed approx. 2" to 3" water on top of the excavated area (approx. 1 1/2" of standing water). After the water had soaked into the ground, the operator compacted the area with the backet of the backhole. This action was against our agreement and therefore, I did not accept any test.

Jerry Warner, Corps of Engineer, instructed the contractor to repair the hole as per specification without any charges.

4/25/90 08:00 - 13:30

S & A compacted the cut area in NW corner (around the transformers).

09:00 Field Project Meeting:
As per Mr. Cooper, the backfilled pipe trench has to be reexcavated, compacted and backfilled. Submitted sketch for the elevation of trench.

SW Engineering laid out the North ditch location.

4/27/90

S & A finalized the vault elevation.

B & H started excavation of the drainage pipe trench.

SW Engineering performed the field permeability test.

4/30/90 **08:00 - 15:00**

S & A excavated uncompacted trench. Trench was approx 5 ft deep at the removed interceptor tank. Approx 10 lifts (10 compaction tests required) needed to backfill trench.

B & H started drain pipe fabrication.
Visual inspection of some welds - In my opinion, the welds were good.

SW Surveyors surveyed elevations of closure area.

5/1/90 **08:00 - 14:00**

Received 4/27/90 permeability test results:

Specified conductivity		10^{-7} cm/sec
Actual test results	7.4 x	10^{-6} cm/sec

Unacceptable value.
Clay was not prepared as specified (recondition was not deep enough).
Recommended repeat test of reconditioned area approx 10' x 10' x 2' deep.

5/2/90 **08:00 - 14:30**

09:00 General construction meeting:
Smith and Aguirre will provide a clay liner lay down procedure by May 9, 1990.

S & A worked on subgrading closure area.

B & H started to lay 2" drain pipe in place.

5/3/90 **08:00 - 15:00**

S & A worked on sub-grading closure and vault area.

B & H tested 2" pipe for leaks (approx. 70# water pressure) for 12 hrs.

5/4/90 **09:00 - 14:00**

S & A proceeded working on vault area.

5/7/90 09:00 - 13:00

Continued work on vault area.

5/8/90 08:30 - 12:00

Continued work on vault area.
B & H began backfilling the 2" drain line trench.

5/9/90 08:00 - 12:00

Project meeting - clay cap placement procedure submitted by S & A.
Accepted field permeability test. Apparatus out of test range.
Conversation with A. E. Gordon of New Mexico Health & Environment Department (505) 827-2210. She agreed to accept the test.

5/10/90 08:00 - 11:00

Smith & Aguirre received go ahead to lay clay liner.
Continued working on vault area.

5/11/90 09:00 - 11:30

Continued working on vault area and clay liner.

5/14/90 08:00 - 11:30

S & A started to lay the first lift of the clay liner.

Painted all well extensions - 2 ft elevation for clay liner and 3 1/2 ft elevation of top of final grade.

B & H proceeded with 4" drain pipe trench.

5/15/90 09:00 - 13:30

S & A proceeded to lay the first lift of the clay liner.

B & H proceeded on 4" drain pipe trench.

5/16/90 08:00 - 13:00

Project meeting and general discussion.

S & A proceeded to lay the first lift of the clay liner.

B & H proceeded on 4" drain pipe trench.

5/17/90 08:00 - 11:00

S & A started forming the lower portion of vault and continued to lay the first lift of the clay liner.

Hendricks Electric excavated the trench for the catalytic corrosion protection systems and installed system inside of closure area.

5/18/90 08:00 - 14:00

Smith & Aguirre started on the second lift of the clay liner.

B & H performed pipe leak test on the lower portion of the drain pipe system (near the evap. pond) (70# for 12 hrs.).

Hendricks Electric backfilled the cable trench area.

5/21/90 06:00 - 14:00

Top of clay layer was still very dry after watering. Situation was corrected by additional watering.

Pipe leak test accepted.

5/22/90 08:00 - 10:30

Smith & Aguirre proceeded on the clay liner.

5/23/90 08:00 - 10:30

Vault foundation and 4 ft high wall was poured. B & H set 4" drain clean out in trench (south of TTF). Tank cleaning operation started. The cleaning area was covered with a heavy plastic liner.

Smith & Aguirre Construction, Inc. proceeded on the clay liner.

5/24/90 08:00 - 11:00

S & A proceeded on the clay liner and started on the drain ditch excavation south side of closure.

5/25/90 08:00 - 13:00

Tank cleaning completed.

S & A proceeded on the clay liner.

5/29/90 08:00 - 11:00

S & A proceeded on the clay liner and drain ditch excavating.

5/30/90 08:00 - 11:00

S & A proceeded on the clay liner, drain ditch excavating and started forming the high wall of the vault.

5/31/90 08:00 - 12:00

Project meeting : General discussions

S & A same as activities as 5/30/90.

6/1/90 09:00 - 12:00

S & A same activities as 5/30/90.

6/4/90 06:00 - 11:00

S & A set forms for vault wall. Set rebar steel for ditch on south side of closure area. Backfilled lower portion of the vault. Prepared top of clay liner for the 2" sand layer.

6/5/90 08:00 - 11:00

Visitor - [illegible]. Gordon of the New Mexico Health and Environment Department.

S & A poured vault wall concrete . Set rebar steel for ditch on south side of closure area. Backfilled lower portion of the vault. Prepared top of clay liner for 2" sand layer.

6/6/90 08:00 - 12:00

Project meeting.

Willie Johnson of S & A, explained the watering procedure for the sand/clay liner. Jerry Warner of corps of engineers, instructed S & A to keep forms on the wall for one week.

6/7/90 08:00 - 11:30

S & A began spreading 2" sand layer on top of the 2' clay liner.

6/8/90 08:00 - 11:00

S & A continued spreading 2" sand layer on top of the 2' clay liner.
Concrete poured - ditch on south side of clay liner (approx 1/3 of length).

6/11/90 7:30 - 10:30

S & A proceeded to set rebar for ditch on south side of closure area.
Removed forms from the vault wall.
Backfilled vault area.

6/12/90 11:00 - 15:00

S & A proceeded to backfill the vault area.

Snow, Jerry Warnner and I received specifications on liner.

Snow explained installation and test procedure of liner installation.

Snow Company started to lay the synthetic liner.

6/14/90 11:00 - 15:00

Project meeting:

Smith & Aguirre will put approx 4" sand on top of the synthetic liner to protect the liner from punctures.

S & A proceeded backfilling the vault area. One lift was 12" thick instead of 6" thick. Willie Johnson of S & A corrected the situation.

Snow company proceeded to lay the synthetic liner.

6/15/90 10:30 - 14:00

S & A proceeded backfilling the vault area and began spreading the sand layer on top of the synthetic liner. I checked all booths around the wells and witnessed air test on 8 booths. I also inspected all glued field seams on the synthetic liner.

6/18/90 08:00 - 12:00

S & A proceeded backfilling the vault area (first lift of clay liner). Installed rebar in ditch of north side of closure area (north side).

6/19/90 08:00 - 12:00

S & A same activities as 6/18/90.

6/20/90 08:00 - 13:00

Project Meeting and General Discussion:

S & A continued backfilling around the vault area, poured concrete straight north-east portion of ditch and prepared northwest ditch of closure area.

B & H began to reexcavate 4"drain pipe trench near TTF.

6/21/90 08:00 - 11:00

S & A continued backfilling around the vault area.

B & H continued reexcavating 4"drain pipe trench near TTF.

6/22/90 08:00 - 12:00

S & A and B & H same activities as 6/21/90.

6/25/90 08:00 - 12:00

Clay placement and pipe installation.

6/26/90 09:00 - 12:00

Clay placement and pipe installation.

6/27/90 08:00 - 12:00

B & H pipe pressure test.

S & A excavated salt pond and spread sand under synthetic liner.

6/28/90 08:00 - 12:00

B & H 2" pump drain pipe pressure test.

S & A prepared north-west part of ditch, excavated and compacted the walls of the salt pond.

6/29/90 08:00 - 13:00

S & A poured concrete in north-west part of drain ditch of closure area.
Ambient temperature 96°F @ 11:30
Delivered concrete temperature 78°F @ 11:30

7/2/90 **08:00 - 12:00**

S & A continued to removed forming from north side ditch. Built up forms for west part of south side ditch. Prepared ground for road outside of clay line area.

7/3/90 **11:00 - 13:00**

S & A same activities as 7/2/90.

7/4/90 **Independence Day**

7/5/90 **07:30 - 10:30**

S & A same as 7/2/90.

7/6/90 **(No inspection)**

Snow Comp. proceeded to install the synthetic liner.

7/9/90 **08:00 - 12:00**

S & A built up forms for west part of south side ditch of closure area. Spread sand on top of synthetic liner on north side of closure area.

Kentric Electric installed catodes on south side of drain pipe (outside of closure area).

Snow Comp proceeded to install the synthetic liner.

7/10/90 **07:30 - 10:00**

S & A poured concrete in north side ditch. Spread sand on top of synthetic liner on north side of closure area.

Kentric Electric continued to install cables for catodes.

Snow Comp proceeded to install the synthetic liner.

B & H excavated trench for 2" salt drain pipe, installed pipe, and tested pipe (15 ft high water column).

Note: Checked elevations on top of synthtic liner around the east of vault area to find out if drainage is guarenteed.
The overnight rain drained away from the area perfectly.

7/11/90 07:30 - 10:00

Kendric Electric installed the cable for the corrosion protection system for
4" drain pipe system.

S & A removed concrete forms from drain ditch (southwest side of closure) and spread sand on synthetic liner.

7/12/90 07:30 - 10:00

S & A spread sand on synthetic liner.

7/13/90 09:00 - 10:00

No construction activity.

7/16/90 09:00 - 12:00

S & A Final preparation of ground surface for salt fog chamber pond and laying of synthetic liner. Snow company placed synthetic liner. Inspections found four places of surface damage in liner. Surface damage were imidiatly repaired and liner was retested.

7/17/90 08:00 - 12:00

S & A placed the one foot or more of filling on top of liner. Snow company completed synthetic liner job in the inclosure area.

7/18/90 08:00 - 12:00

S & A preformed same activity as 7/17/90. Approximatly two square feet area of synthetic liner were damaged by the roller. Snow company repaired and tested the damaged area.

7/19/20 08:00 - 12:00

Same activity as 7/18/90.

7/20/90 08:00 - 12:00

Same activity as 7/18/90.

7/23/90 08:00 - 13:00

Primary liner was placed in salt pond.

S & A started to place the first 6" layer base-course on top of the sand layer on the south side of closure.

7/24/90 08:00 - 14:00

S & A continued to spread base-course and placed the top layer material on the primary liner.

7/25/90 08:00 - 11:00

Performed same activity as 7/24/90.

7/26/90 - 8/3/90

No construction activities on closure (stock piling base-course material only).

8/6/90 08:00 - 10:30

S & A continued to spread the first 6" thick layer of base-course.

8/7/90 08:00 - 10:00

Preformed same activity as 8/6/90.

8/8/90 08:00 - 11:00

Preformed same activity as 8/6/90.

8/9/90 08:00 - 11:00

Preformed same activity as 8/6/90.

8/10/90 08:00 - 13:00

S & A preformed same activity as 8/6/90.

8/13/90 08:00 - 11:00

S & A preformed same activity as 8/6/90.

8/14/90 08:00 - 11:00

S & A continued to spread the base-course and started to lay the geo-fabric.

8/15/90 08:00 - 11:00

Same Activities as 8/14/90.

8/16/90 08:00 - 12:00

Same Activities as 8/15/90.

8/17/90 08:00 - 12:00

Same activities as 8/16/90.

8/20/90 09:00 - 12:00

S & A continued to spread base-course and poured concrete around the transformer area.

8/21/90 09:00 - 12:00

S & A continued to spread basce-course.

8/22/90 - 8/24/90 08:00 - 12:00

S & A same activity as 8/21/90.

8/27/90 08:00 - 12:00

S & A started to spread second layer of base-course material.

8/28/90 - 8/31/90

S & A preformed the same activity as 8/27/90.

9/4/90 08:00 - 14:00

Inspection of second base-course layer elevation was an area of approximatly 60 X 80 ft. Located about 250 ft. east from the TTF and 150 ft. south from the north ditch. It needed an additional 2" more base-course on top of the blue toped elevation. S & A added base-course in the low area.

9/5/90 08:00 - 14:00

S & A added more base-course in the low area until it was on the correct elevevation.

9/6/90 08:00 - 11:30

S & A proceeded with the base-course cement processing using a BUMAC RECYCLER as mixing tool and roller for compaction and smoothness.

9/7/90 - 9/14/90 08:00 - 12:00

S & A same activity as 9/6/90.

9/17/90 08:00 - 10:00

S & A start to spread the 2" crushed rock layer.

9/18/90 09:00 - 11:00

S & A same activity as 9/17/90.

9/19/90 08:00 - 14:00

S & A completed spreading of the 2" crushed rock layers.

FINAL INSPECTION:

Final inspection was on September 19, 1990. The closure project was completed as specified and can function for the purpose it was designed for. Still some minor work needs to be completed, such as fencing and general clean up.

MEETING TIME: 11:00

ATTENDANCE:

Don Bell	DEHL
Bruce Bunker	TE-AE
Arron Syers	Dynaspan
Juan Ontiveros	Dynaspan
Jerry Warner	Corps of Eng.
Marvin Mathis	S&A Const.
E.C. Hansel	IMS

RINCHEM COMPANY, INC.
6133 EDITH BOULEVARD NE
ALBUQUERQUE, NM 87107
PHONE (505) 345-3655

May 29, 1990

Mr. Lyndon Fruit
Smith & Aguierre
P.O. Box 2276
Las Cruces, NM 88004

RE: US Army Corps of Engineers
White Sands Missile Range, New Mexico
Temperature Test Facility Closure Plan
Tank Cleaning Subcontract

Dear Mr. Fruit,

Enclosed you will find our final report on work conducted and results from the job mentioned above.

Rinchem would like to thank your personnel onsite who were most helpful in moving the tanks to facilitate our cleaning them and supplying of fresh water for our cleaning water storage tank.

The safety hazards associated with this job were well-identified upfront both by the Corps of Engineers package as well as the information provided by your Company. As noted in the report, extensive safety and health precautions were taken with regard to the confined space of the large tank, the ambient temperature conditions and the heat stress potential from the generation of hot steam inside the tank during the cleaning process.

The report clearly details the number of drums, contents, pH level and tank number waste is from. Attached to the report are copies of the analytical test results from National Analytical Laboratory (N.A.L.) - an E.P.A. contract laboratory. The samples taken from each tank were packed in ice and shipped overnight to N.A.L. The test method utilized by N.A.L. complies with the E.P.A. specification SW-846 as called for in the contract.

A detailed cost accounting of the job will follow.

We care,

Margo A. Watkins
Technical Representative

Encl.

cc: Marvin Mathis with enclosures

RINCHEM COMPANY, INC.
6133 EDITH BOULEVARD NE
ALBUQUERQUE, NM 87107
PHONE (505) 345-3655

F I N A L R E P O R T

US ARMY CORPS OF ENGINEERS
WHITE SANDS MISSILE RANGE, NEW MEXICO
TEMPERATURE TEST FACILITY CLOSURE PLAN
TANK CLEANING SUBCONTRACT
WORK DATES:
MAY 22-25, 1990

SUBMITTED BY: RINCHEM COMPANY INC.
6133 Edith Blvd
Albuquerque, NM 87107

SUBMITTED TO: Smith & Aguierre
P.O. Box 2276
Las Cruces, NM 88004
Mr. Lyndon Fruit
with copy to Marvin Mathis

SCOPE OF WORK: Cleaning and testing of storage tanks and ancillary equipment used for the containment and transport of methylene chloride at the Temperature Test Facility. Underground pipelines to be disposed of also to be cleaned in accordance with this procedure.

HOURS AND PERSONNEL: 48 total hours spent by crew on job - see attachment A

Team Leader: Gary Michaelson
Technician: Neil Day
Technician: Gil Fried
Safety Professional: Margo A. Watkins

MAY 22, 1990: Onsite survey of tanks, sump, and contamination area to be plastic sheeting coated berm-to-berm.

MAY 23, 1990: Plastic sheeting laid out over entire work surface area. Duct tape used on seams. Sump in NE corner of work site completely lined. 10-mil black plastic laid down four layers deep in prime work area and two layers deep in less used area of the work site.

Smith & Aguierre personnel assisted in rolling tanks over so they each were slanted with site - downhill to north - and ports exposed on East side for access.

MAY 23, 1990: (cont.)

All port covers removed - three each per tank. Gastech Model GX-82 triple range gas monitor was placed by hand inside each of the tanks and readings noted: at ports utilizing squeeze bulb and sample probe inside approximately 3 feet the readings indicated NO FLAMMABLE/ EXPLOSIVE GAS LEVELS - NO ELEVATION OR REDUCTION IN OXYGEN LEVELS - AND NO CARBON MONOXIDE.

Ventilator fan was attached to the north end ports of th tanks and allowed to run for over 20 minutes per tank which would represent over 6 air changes per tank.

A reading of 13-20 ppm Carbon Monoxide picked up from in and around tanks - heavy equipment working adjacent to t work site was noted as source.

Entry of the large tank (#4) was authorized by Safety Officer Watkins. Technicians entered suited up in: Positive Pressure full face respirators on supplied air, PVC gloves and liners, Tyvek full coveralls, PVC knee boots-steel toe, safety glasses and hard hat.

A hot steam wash of water and TCP (low sudsing, biodegradable) soap was used on the interior of all four tank

Water was tested for pH and Chlorinated. The pH tested neutral on Tanks 1-3 and ranged from 11-7 on Tank 4. No chlorinated materials were detected using the Bellestein copper wire test method.

An explosion-proof light was hung in Tank 4 during work. A lifeline was attached to personnel before entering Tar 4 and one person continually observed person inside from the outside looking through the center porthole on the tank. Submersible pump used in North end to fill drums.

Work periods allowed in Tank 4 was 10 minutes per person Pulse monitored, Gatorade administered and cold compress pressed on pulse points. Workers required to rest in shade until physical state allowed reentry.

Samples taken from all four tanks, labeled, chain of cus tody forms completed, samples iced down and packed in cooler with vermiculite and shipped via Federal Express overnight to National Analytical Laboratories in Tulsa, Oklahoma to comply with the 48-hour sample hol time as requested in the contract.

Samples from Tanks 1-3 represented the third hot steam rinse. The sample from Tank 4 represented the first rinse hot water. The level of dirt-like material prese only in Tank 4 required much more time and work than required in Tanks 1-3.

May 24, 1990: Tank 4 entry procedures followed as previous day with entry authorization given by Safety Officer Watkins. The mud/dirt substance was shoveled out of tank into steel drums. Because of the heat stress potential, work periods were monitored at 15-minute periods. An ice-vest was utilized by tank entry personnel. Rinse water used throughout day alternated between hot and cold. Sludge was shoveled and pumped via spark-proof shovels and heavy duty sludge pump. A total of four complete rinses were completed on Tank 4 with all rinseate being pumped into 55-gallon steel drums. Onsite records maintained by Watkins noting drum contents, drum number, and Tank source number.

May 25, 1990: Final rinse of Tank 4 - all particulate material had been removed the day previous. Final rinse water contained drum #11. All drums tested for pH, numbered, labeled and moved to plastic sheeted area on the northeast end of the worksite. See Attachment B - Tank and Drum Inventory.

Since site contractor personnel were not available to move the 4 tanks off of the plastic sheeting liner, 4 open head steel drums were left with contractor for waste plastic.

One additional small scrap white tank was steam cleaned on the plastic lined area at the request of the site contractor.

The used copper pipes were moved onto the plastic and each pipe was steam cleaned and rinsed inside and outside. The water that drained into the sump at the northeast corner of the worksite had evaporated during the days onsite. There was no water to be pumped out of the sump.

Drums and site secure, check out with M. Mathis, site contractor contact.

Respectfully submitted,

Margo A. Watkins

Margo A. Watkins
Technical Representative
Rinchem Company, Inc.

Attachments: A - Hours
B - Tank and Drum Inventory
C - NAL test results from TANK 1
D - NAL test results from TANK 2
E - NAL test results from TANK 3
F - NAL test results from TANK 4

ATTACHMENT A

WHITE SANDS MISSILE RANGE TANK CLEANING JOB - MAY 22-25, 1990

PRIME CONTRACTOR: Smith & Aguierre SUBCONTRACTOR: Rinchem Company, I

HOURS AND PERSONNEL ASSIGNED TO JOB:

PERSONNEL:
Gary Michaelson, Team Leader
Rinchem Company, Inc.
Neil Day, Lead Technician
Rinchem Company, Inc.
Gil Fried, Technician
Rinchem Company, Inc.
Margo A. Watkins, Safety Professional
Rinchem Company, Inc.

HOURS:	May 22, 1990	Depart ABQ	11:00 am	
		Work Site Survey	5:00 pm - 6:00 pm	
		Hotel check-in	7:00 pm	
	May 23, 1990	Depart Hotel	5:30 am	
		Arrive Site	7:00 am	
		Leave Site	4:30 pm	(To Federal Express)
		Arrive Hotel	6:30 pm	
	May 24,1990	Depart Hotel	5:30 am	
		Arrive Site	7:00 am	
		Leave Site	6:30 pm	
		Arrive Hotel	7:30 pm	
	May 25, 1990	Depart Hotel	6:00 am	
		Arrive Site	8:00 am	
		Leave Site	12:30 pm	
		Arrive ABQ.	7:30 pm	

RINCHEM COMPANY, INC.
6133 EDITH BOULEVARD NE
ALBUQUERQUE, NM 87107
PHONE (505) 345-3655

ATTACHMENT B

WHITE SANDS MISSLE RANGE TANK CLEANING JOB

MAY 22, 1990 - MAY 25, 1990 PRIME CONTRACTOR: SMITH & AGUIERRE

TANK INVENTORY:

Tank #4 46' long X 11' Diameter

Steel with three ports, inside ladder and outside ladder and liner material

Analytical test: 3.8 ppm Toluene

Action: Tank rinsed with clean H_2O four additional times (this action was after sample was taken).

TANK #3, #2, #1 22' long X 72" Diameter

Stainless steel tanks with three ports

Analytical test: none of the suspect target five chemicals found

Action: The three rinses on each of these tanks was sufficient to completely clean them

DRUM INVENTORY:

DRUM NUMBER	DRUM TYPE	pH	TANK	DRUM NUMBER	DRUM TYPE	pH	TA
1	17E	10	4	16	17E	9	
2	17E	10	4	17	17E	9	
3	17E	9	4	18	17E	9	
4	17E	9	4	19	17E	9	
5	17E	9	4	20	17H	10	
6	17E	10	4	21	17H	10	
7	17E	11	4	22	17H	10	
8	17E	11	4	23	17H	N/A	
9	17E	10	4	24	17E	6	
10	17E	10	4	25	17E	7	1
11	17E	7	4	26	17H	N/A	
12	17E	9	4	27	17H	N/A	
13	17E	10	4	28	17H	N/A	
14	17E	10	4	29	17H	N/A	
15	17E	10	4				

17E = drum with bungs

17H = drum with flat top

*** = tyvek, gloves, respirator cartridges and tape

** = plastic sheeting used as liner

NATIONAL ANALYTICAL LABORATORIES
A Division of U.S. POLLUTION CONTROL, INC.

RINCHEM ATTACHMENT C

GARY MICHAELSON
RINCHEM
6133 EDITH BLVD. N.E.

ALBUQUERQUE, NM 87107

REPORT NUMBER: 6816A01

SAMPLE IDENTIFICATION: 6816-01
CUSTOMER IDENTIFICATION: #1
DATE SAMPLED:
TYPE OF MATERIAL: WATER

DATE RECEIVED: 5/24/90
DATE COMPLETED: 5/25/90

PARAMETER	REF. METHOD	DET. LIMIT	RESULT
METHYLENE CHLORIDE	EPA 8021	1.0 MG/L	BDL MG/L
TETRACHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L
TOLUENE	EPA 8021	1.0 MG/L	BDL MG/L
1,1,1-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
1,1,2-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
TRICHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L

BDL = BELOW DETECTION LIMIT

1220 South 16th Street Avenue • Tulsa, Oklahoma 74107 • (918) 446-1162

NATIONAL ANALYTICAL LABORATORIES
A Division of US POLLUTION CONTROL, INC.

RINCHEM ATTACHMENT D

GARY MICHAELSON
RINCHEM
5133 EDITH BLVD. N.E.

ALBUQUERQUE, NM 87107

REPORT NUMBER: 6816A01

PAGE 2

SAMPLE IDENTIFICATION: 6816-02
CUSTOMER IDENTIFICATION: #2
DATE SAMPLED:
TYPE OF MATERIAL: WATER

DATE RECEIVED: 5/24/90
DATE COMPLETED: 5/25/90

PARAMETER	REF. METHOD	DET. LIMIT	RESULT
METHYLENE CHLORIDE	EPA 8021	1.0 MG/L	BDL MG/L
TETRACHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L
TOLUENE	EPA 8021	1.0 MG/L	BDL MG/L
1,1,1-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
1,1,2-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
TRICHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L

BDL = BELOW DETECTION LIMIT

Tulsa, Oklahoma 74107 • (918) 446-1162

NATIONAL ANALYTICAL LABORATORIES
A Division of U.S. POLLUTION CONTROL, INC.

GARY MICHAELSON
RINCHEM
6133 EDITH BLVD. N.E.

ALBUQUERQUE, NM 87107

PAGE 3

REPORT NUMBER: 6816A01

SAMPLE IDENTIFICATION: 6816-03
CUSTOMER IDENTIFICATION: #3
DATE SAMPLED:
TYPE OF MATERIAL: WATER

DATE RECEIVED: 5/24/90
DATE COMPLETED: 5/25/90

PARAMETER	REF. METHOD	DET. LIMIT	RESULT
METHYLENE CHLORIDE	EPA 8021	1.0 MG/L	BDL MG/L
TETRACHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L
TOLUENE	EPA 8021	1.0 MG/L	BDL MG/L
1,1,1-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
1,1,2-TRICHLOROETHANE	EPA 8021	1.0 MG/L	BDL MG/L
TRICHLOROETHENE	EPA 8021	1.0 MG/L	BDL MG/L

BDL = BELOW DETECTION LIMIT

4322 South 49th West Avenue • Tulsa, Oklahoma 74107 • (918) 446-1162

Appendix A-3
SWMU 107 (WSMR-35):
1998 NMED Letter Approving Closure of TTF

WSMR Environment & Safety Tech Lib
2 8800 00028035 5

200-1R
W35-CLO
1998

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544

GARY E. JOHNSON
GOVERNOR

MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

September 1, 1998

COPY

Thomas A. Ladd, Director
Environmental and Safety
Department of the Army
U.S. Army White Sands Missile Range
White Sands Missile Range, New Mexico 88002

Dear Mr. Ladd:

RE: TEMPERATURE TEST FACILITY EVAPORATION TANK CERTIFICATION VERIFICATION
EPA ID NO. NM2750211235

The New Mexico Environment Department (NMED) RCRA Inspection & Enforcement Program accompanied by the RCRA Permits Management Program (RPMP) conducted a Certification Verification (C/V) Inspection of the Temperature Test Facility (TTF) Evaporation Tank, at the White Sands Missile Range (WSMR), on August 4, 1998. Upon completion of the document review and the physical inspection of the TTF Evaporation Tank and associated ancillary equipment, NMED requested the submittal of additional documentation and specified Closure Plan deliverables (i.e., sample analyses; evaluation report for the closure verification activities; and the photo journal).

NMED received the requested additional documentation and completed its review of said documentation. WSMR has completed the specified requirements in their Approved Closure Plan for the closure of this RCRA unit.

Therefore, NMED hereby verifies the Closure Certification of the TTF Evaporation Tank. This verification is effective and binding on the date of signature of this letter. WSMR's continued remedial investigation(s) and cleanup action(s) associated with the soil vapor extraction of volatile organic compounds (VOCs) at the TTF Surface Impoundment Post-Closure Care Unit are not

impacted by this verification. These remedial activities are to continue as specified in WSMR's *WORK PLAN, HEALTH AND SAFETY PLAN, and CONTRACTOR's QUALITY CONTROL PLAN- SOIL VAPOR EXTRACTION & TREATMENT PLANT for the TEMPERATURE TEST FACILITY*, dated January 27, 1995.

Should you have any questions regarding this matter you may contact Mr. Benito J. Garcia of my staff at 505/827-1557.

Sincerely,

Ed Kelley, Ph.D.
Director, Water and Waste Management Division

cc: Benito Garcia, Chief HRMB
Robert S. Dinwiddie, Program Manager RPMP
Stephanie Kruse, Supervisor RPMP/DOD
Phillip Solano, RPMP/DOD
David Neleigh, Chief, EPA (6PD-N)

File: Red,WSMR,98
Track: WSMR,09/01/98,WSMR/Ladd,HRMB/PJS,RE

Post-it® Fax Note 7671	Date 9-1-98	# of pages ▶ 7
To Robin Smith	From PSolano	
Co./Dept. WSMR	Co. HRMB/NMED	
Phone # 505/678-8693	Phone # 505/827-1561	
Fax # 505/678-4028	Fax # 505/827-1544	

Appendix B-1
SWMUs 121 – 123 (WSMR-67):
1993 Tank Closure Report

LIBRARY COPY

FINAL CLOSURE REPORT FOR THE STORAGE TANK REMOVAL AND REMEDIATION

AT

STALLION RANGE CENTER, WHITE SANDS MISSILE RANGE

30 AUGUST 1993

DEPARTMENT OF THE ARMY

U.S. ARMY WHITE SANDS MISSILE RANGE
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-5048

AUG 1999 RECEIVED

REPLY TO
ATTENTION OF

August 16, 1999

National Range Directorate of Environment and Safety

COPY

Mr. James Bearzi
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
2044 Galisteo
P.O. Box 26110
Santa Fe, New Mexico 87502

SUBJECT: Annual Unit Audit Revision Request - Clarification

Dear Mr. Bearzi:

We wish to clarify that portion of our response 5 which discussed Solid Waste Management Units (SWMUs) 121-123, Stallion Asphalt Tanks, submitted in our July 29, 1999 letter responding to your letter to us dated July 19, 1999, wherein you addressed our concerns on a number of specific SWMU sites that appeared on our Annual Unit Audit (AUA) and fee schedule. Our original response 5 on this issue read as follows:

> **SWMUs 121-123** - The underground storage tanks at Stallion Range Center identified by these SWMUs were removed and clean closed in 1993. At that time the action was coordinated with Ms. Nina Wells of the NMED UST Bureau. Closure records are on file with the UST Bureau. For that reason we believe that these sites should be removed from the AUA baseline.

In a telephone conversation on August 4, 1999, Mr. Phillip Solano of your staff requested Ms. Robin Smith of our staff provide the registration numbers on the Stallion Asphalt Tanks so that the stated coordination with the NMED UST Bureau could be verified. While researching this requested information, it was discovered that the Stallion Asphalt Tanks were not registered with the NMED UST Bureau. The asphalt tanks were not buried, but were placed on the side of a terraced hill with the soil on the north side of the tanks extending approximately halfway up the tank sides. No piping or vent lines were associated with the tanks.

FINAL CLOSURE REPORT FOR THE STORAGE TANK REMOVAL AND REMEDIATION

AT

STALLION RANGE CENTER, WHITE SANDS MISSILE RANGE

CONTRACT DAAD07-90-C-0018
WORK ASSIGNMENT ORDER 400-11, REVISION 4 AND 5

30 August 1993

Submitted to:

U. S. Army
White Sands Missile Range
Director of Contracting
Services Contracting Branch
White Sands Missile Range, New Mexico 88002-5201

Submitted By:

Advanced Sciences, Inc.
555 South Telshor, Suite 310
Las Cruces, New Mexico 88001

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SOIL SAMPLES TPH ANALYTICAL RESULTS 6

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APPENDIX C RECEIPTS FOR RECYCLED MATERIALS

1.0 INTRODUCTION

This report presents a description of actions taken during the draining of three above ground storage tanks and the removal of two of those storage tanks. These storage tanks were located approximately 1/4 mile North of the Stallion Ranger Center, White Sands Missile Range (WSMR) (See Figure 1.0). The work described was conducted in response to Work Assignment Order (WAO) 400-11 Revisions 4 and 5.

The three above ground storage tanks were used approximately 30 years ago during the paving of the Stallion Range Center roads. The storage tanks were labeled tank #1, tank #2, and tank #3 (Figure 2.0). Tanks #1 and #2 contained an asphalt emulsion, and tank #3 contained a thin watery asphalt primer substance which was observed to have a viscous asphalt like material floating on it. Tanks #1 and #2 were constructed of plate steel and tank #3 was constructed of aluminum. Each storage tank had a capacity of approximately 15,000 gallons, and dimensions of 26 feet in length by 9 feet in diameter.

2.0 PHASE I EFFORTS/PRELIMINARY INVESTIGATION

Efforts accomplished under Phase I included the following;

- Site visit by ASI, D&C Construction (selected subcontractor) and ES-E personnel on 23 September 1992;
- The collection of a composite sample of the storage tank contents to evaluate its suitability for recycling. The sample was analyzed for pH and Toxicity Characteristic Leaching Procedure (TCLP) which included RCRA metals , volatile organics, and semi-volatiles; and
- The preparation of a site specific Health and Safety Plan (HASP) for tank draining and removal activities.

2.1 Site Reconnaissance

On 23 September 1992, a site visit was made to the storage tanks located at Stallion Range Center by ASI, ES-E and the selected subcontractor. The storage tanks are located approximately 1/4 mile North of Stallion Range Center in an open semi-vegetated area. The site reconnaissance revealed that the tanks contained a total of approximately 15,000 gallons of an asphalt type substance. The storage tanks were not buried, but were placed on the side of a terraced hill where the soil on the north side of the tanks extends approximately halfway up the tank sides. The soil on the south side of the tanks covered approximately 1/8 of the tank sides. No piping or vent lines were observed to be associated with these tanks.

2.2 TCLP Sampling

On 15 April 1993, a single composite sample of the contents of all three tanks was collected. This sample was analyzed for TCLP, by U.S. EPA Method 1311 and for pH by U.S. EPA Method 9040. The TCLP analysis included the eight Resource Conservation Recovery Act (RCRA)

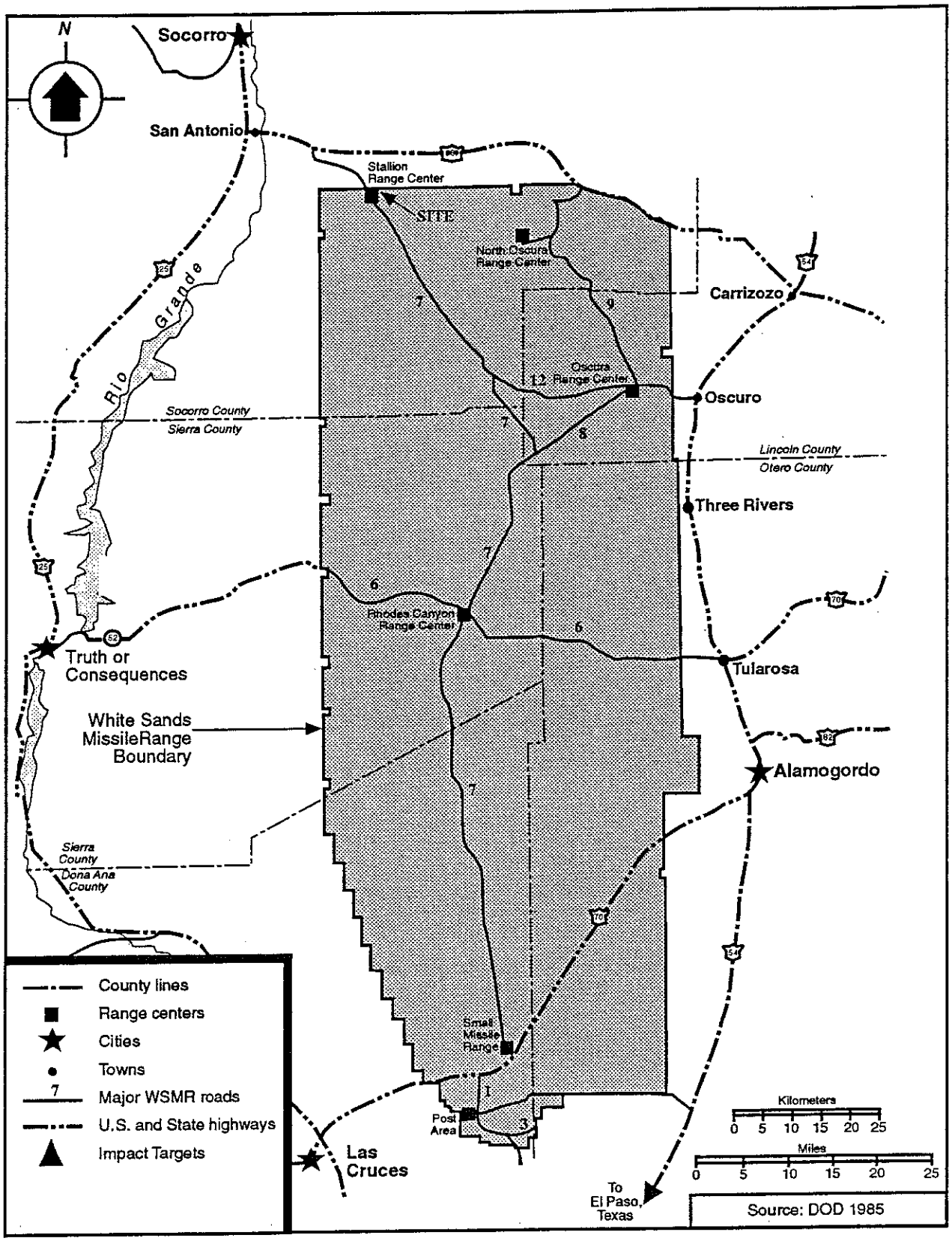


Figure 1.0 Location of Stallion Range Center

Metals, analyzed by U.S. EPA Method 6010, Organic Volatiles by U.S. EPA Method 8260, and Semi-Volatiles by U.S. EPA Method 8270. Only one value in the TCLP analysis was above detection limits, but below TCLP regulatory limits. The excedance of was barium at 0.12 milligrams per liter (mg/L) which was acceptable for recycling. Results of the ph analysis indicated a pH value of 8.8 standard units (S.U.), which was also acceptable for recycling. The recycler of the asphalt was the determining factor in the criteria for acceptance. The recycler used internal constraints on the analytical results. See Table 1.0 for complete TCLP and pH results.

TABLE 1.0
STORAGE TANK CONTENTS
COMPOSITE TCLP AND pH RESULTS
SAMPLE COLLECTED 04/15/93

PARAMETERS	RESULT	UNIT	DETECTION LIMIT	TCLP REGULATORY LIMITS
ARSENIC	ND	mg/L	0.05	5.0
BARIUM	0.12	mg/L	0.05	100
CADMIUM	ND	mg/L	0.05	1.0
CHROMIUM	ND	mg/L	0.05	5.0
LEAD	ND	mg/L	0.05	5.0
MERCURY	ND	mg/L	0.01	0.2
SELENIUM	ND	mg/L	0.05	1.0
SILVER	ND	mg/L	0.05	5.0
ORGANIC VOLATILES	ND	mg/L	*	*
SEMI-VOLATILES	ND	mg/L	*	*
pH	8.8	S.U.	N/A	N/A

NOTES:
1) ND=Not detected
2) mg/L=milligram per liter/parts per million
3) N/A Not applicable
4) S.U.=Standard unit
5) *=Listed as separate compounds
6) Metals analyzed by U.S. EPA Method 6010
7) Organic Volatiles analyzed by U.S, EPA Method 8260
8) Semi-volatiles analyzed by U.S. EPA Method 8270
9) ph analyzed by U.S. EPA Method 9040
10) TCLP extraction by U.S. EPA Method 1311

3.0 PHASE II EFFORTS TO REMOVE THE TANK CONTENTS AND TANKS

On 26 April 1993, an attempt to remove the three tanks and heat the contained asphalt was only partially successful. The method used to heat the asphalt material utilized a heat exchanger in which 180° Fahrenheit water was recirculated continually as the heat transfer fluid. After the asphalt had softened sufficiently, in tank #3 a mechanical pump was used to transfer the asphalt to a tanker truck. The tanker truck was then taken to the recycler. Heating of tank #3 began at approximately 12:30 pm on 26 April 1993, the tank contents were heated for 32 hours. Approximately 5,550 gallons of asphalt was successfully removed from tank #3. Approximately one foot of unpumpable asphalt was left in tank #3. An attempt at removing any of the contents of tanks #1 and #2 in the same manner was unsuccessful. Therefore due to the remaining asphalt in tank #1, #2, and #3 the tanks were left in place.

It was determined that the contents of tank #3 differed greatly from the contents of tanks #1 and #2. The contents of tank #3 was found to be an asphalt primer solution which had stratified in the tank. The watery fraction sank to the bottom and the unpumpable portion had floated to the top. Therefor it was impossible to get a probe through the floating faction to detect the stratification. When a probe was pushed through the top layer the probe became coated and the underlying layer was not detected.

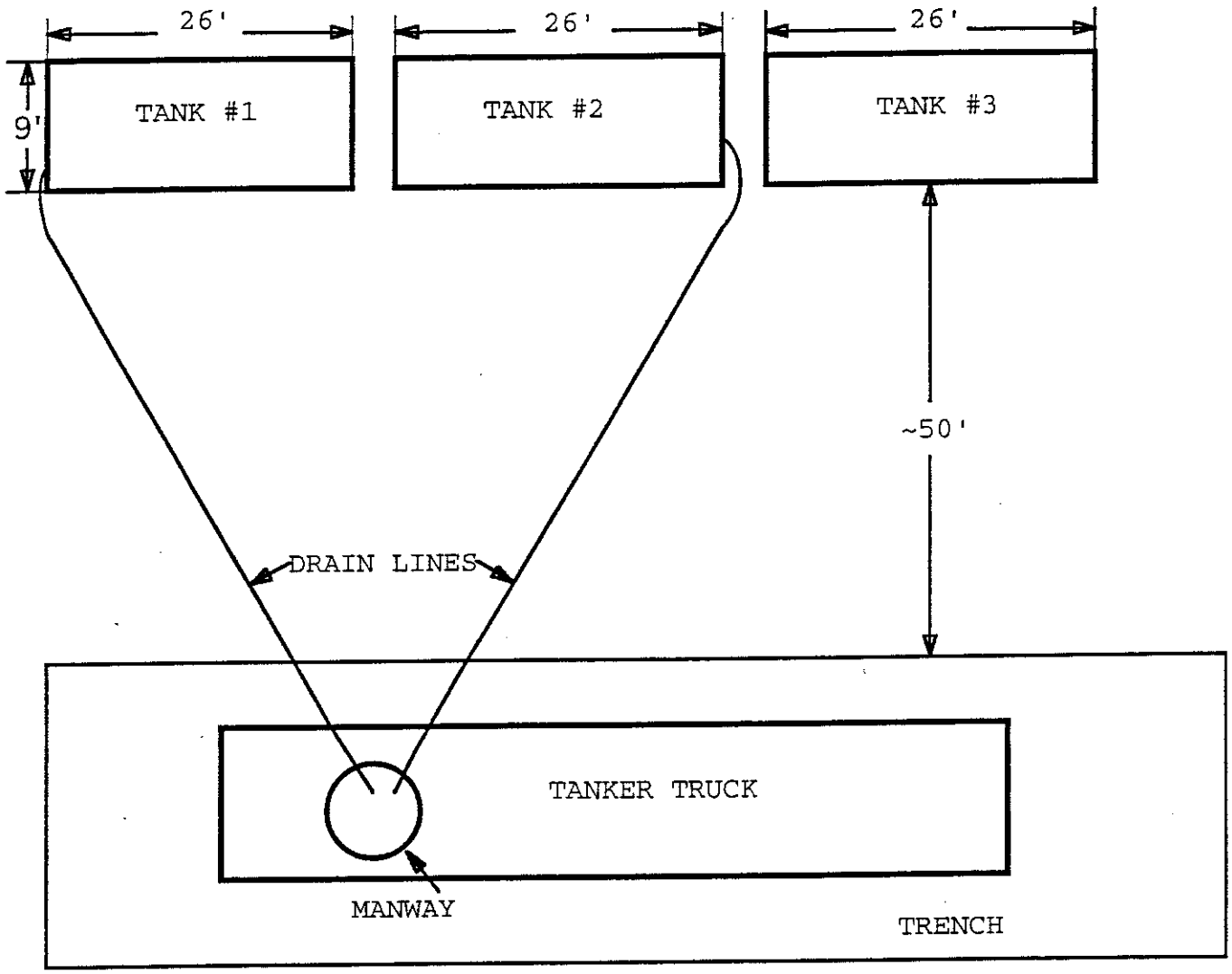
Tanks #1 and #2 contained a different type of asphalt. It was found that these tanks contained an asphalt emulsion. This substance did not stratify but was too viscous to pump even when heated with a 180° Fahrenheit water circulation system.

3.1 Second Attempt to Remove the Contents and Tanks

On 28 June 1993 a new experimental process was developed to remove the product from tanks #1 and #2. This method involved the placement of a tanker truck down hill of tanks #1 and #2, and tapping a 4-inch drain line into the bottom end of tanks #1 and #2 (Figures 2 and 3). These drain lines were then laid down gradient to the manway atop the tanker truck. Total elapsed time for gravity drainage of the asphalt from tanks #1 and #2 was 10 days for both tanks. At the point that normal flow had ceased, the tanks were tilted slightly on one end to allow the remaining product to flow to the tapped end to further aid in removing the product. Approximately 8,470 gallons of product was removed from tanks #1 and #2. The product was transported for recycling to Koch Materials Company located in Albuquerque, New Mexico. See Appendix C for confirmation letter.

After tanks #1 and #2 were probed and found to be empty, a backhoe was used to remove the soil from the north side of the tanks. A WSMR supplied crane was then used to lift the tanks for subsequent inspection and cleaning of the outside of the tanks. A visual inspection of the tank bottoms did not reveal any apparent perforations. The tank surfaces were cleaned of any loose debris for transport. The tanks were transported for recycling to Tom Black's Enterprises; a scrap recycler located in Dona Ana, New Mexico. the tanks will be cut up and melted down. Receipts for tanks #1 and #2 are also contained in Appendix C.

Inspection of the ground surface beneath the tanks revealed a large amount of a semi-solid



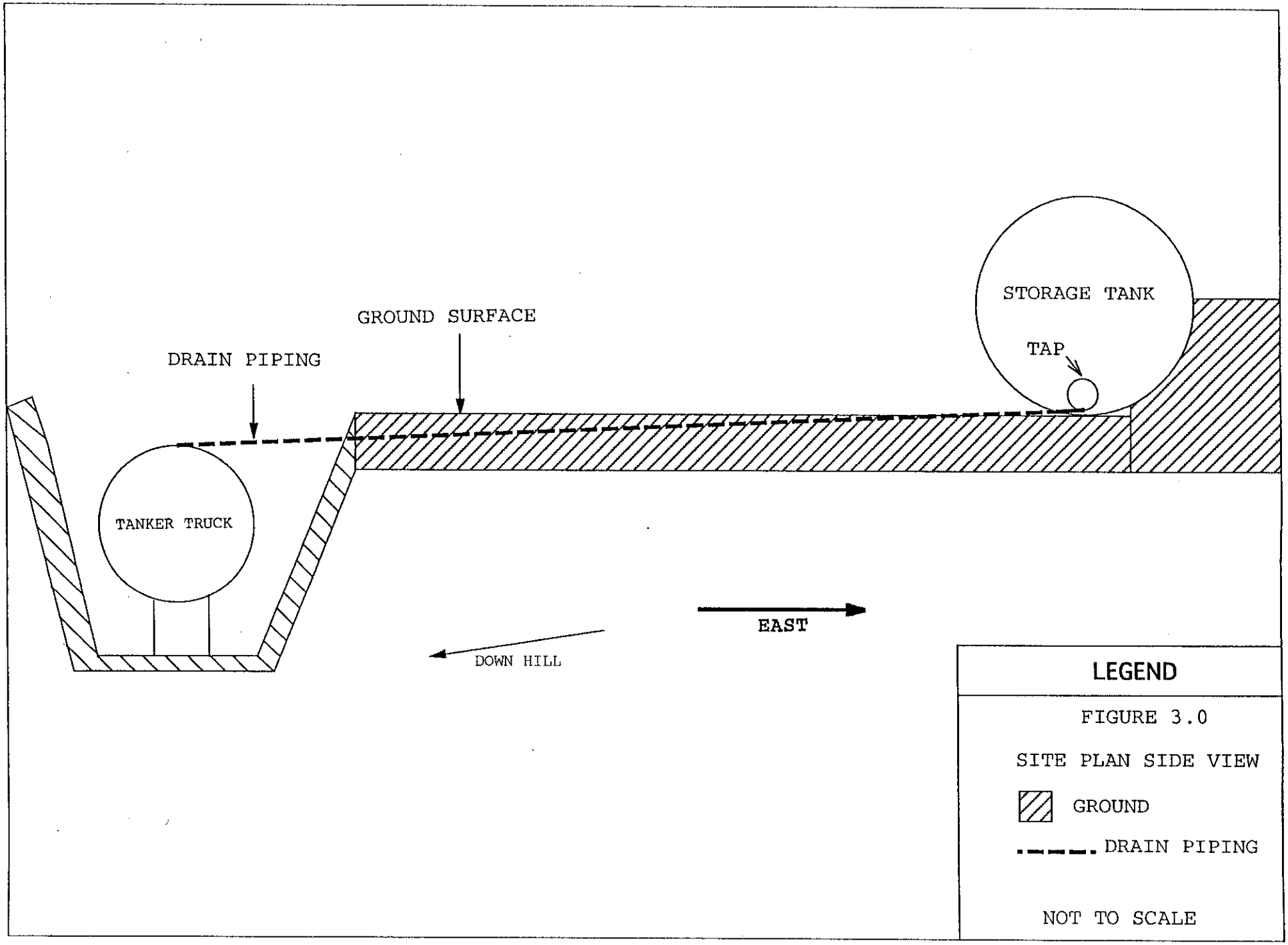
NORTH

LEGEND

FIGURE 2.0.

SITE PLAN

NOT TO SCALE


STORAGE TANK
TAP
GROUND SURFACE
DRAIN PIPING
TANKER TRUCK
EAST
DOWN HILL
LEGEND
FIGURE 3.0
SITE PLAN SIDE VIEW
GROUND
DRAIN PIPING
NOT TO SCALE

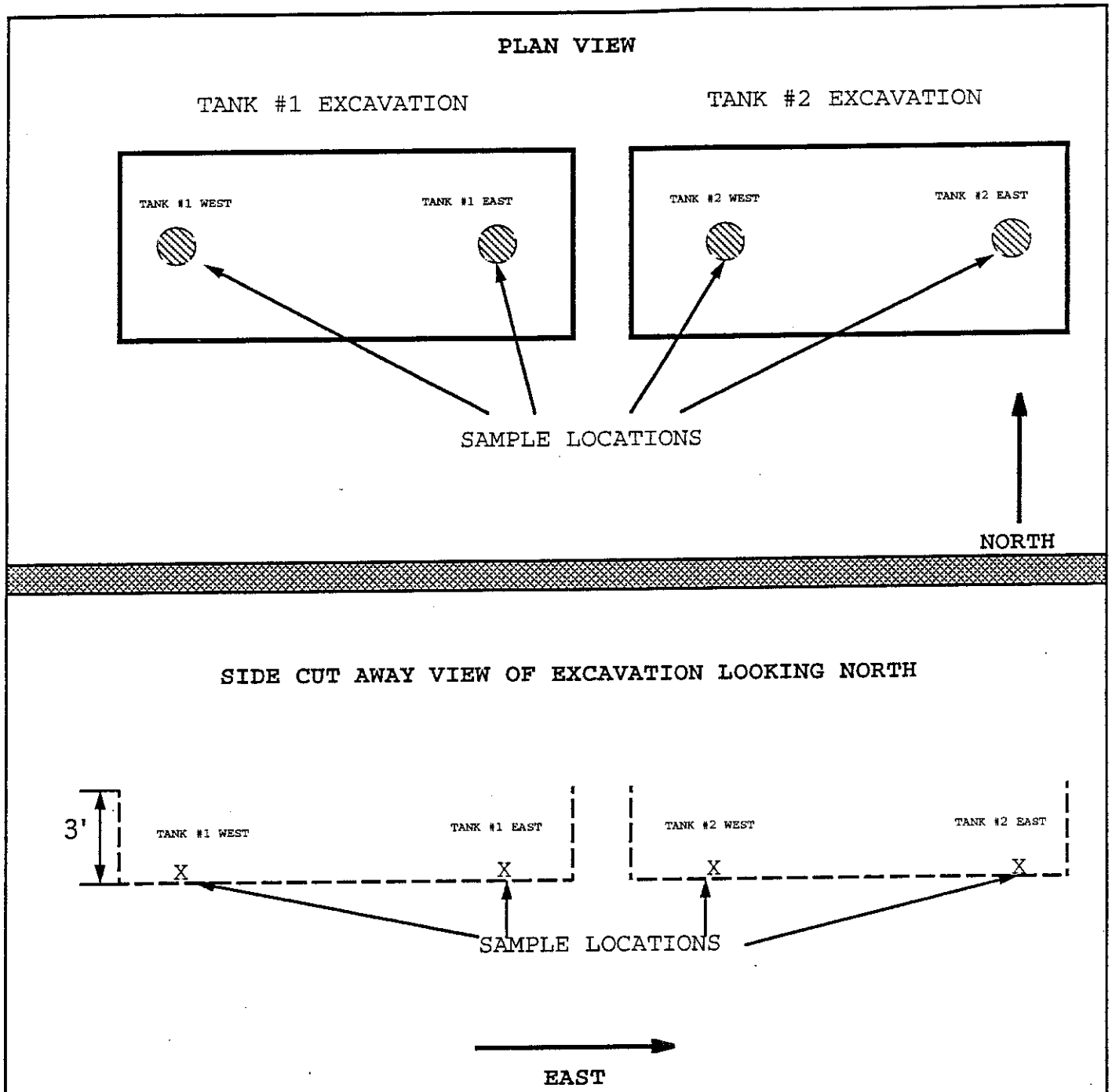
asphalt. During the construction of the trenches for the tanker truck and drain lines some asphalt was observed flowing from the excavated areas.

3.2 Soil Excavation and Sampling

Three feet of soil containing the semi-solid asphalt was excavated from beneath tanks #1 and #2 and placed on bermed visqueen. Although the remaining soil was not completely free of asphalt, soil samples were collected at the bottom of the excavation on July 8,1993 at an approximate depth of three feet below the ground surface, See Figure 4.0.

It was not possible to sample beneath tank #3 because it is still in place. Soil samples were collected using a pre-cleaned stainless steel scoop. Each soil was placed into a laboratory supplied, pre-labeled, one liter glass jar fitted with a teflon lined lid. The sample was immediately placed on ice. The stainless steel scoops were decontaminated between each sampling location. The decontamination procedure consisted of a Alconox and deionized water scrub followed by a triple deionized water rinse and subsequent air drying. A total of four soil samples were collected; one sample from beneath each end of each tank. These soil samples were shipped to Westech Laboratories located in El Paso, Texas under strict chain-of-custody protocols for analysis.

The soil samples were labeled Tank #1 West, Tank #1 East, Tank #2 West, and Tank #2 East. See Figure 4.0 for sample locations. The samples were analyzed for total petroleum hydrocarbons (TPH) by U.S. EPA Method 418.1. All TPH results were above detection limits with TPH values ranging from 61 parts per million (ppm) to 3800 ppm. See Table 2.0 for complete TPH results. The certificate of analytical results and chain-of-custody are contained in Appendix B.



LEGEND

FIGURE 4.0
SAMPLE LOCATION PLAN

=SAMPLE LOCATION

X=SAMPLE LOCATION

NOT TO SCALE

TABLE 2.0
SOIL SAMPLES TPH ANALYTICAL RESULTS
STALLION RANGE CENTER
SAMPLES COLLECTED 07/08/93

SAMPLE I.D.	PARAMETER	RESULT	UNIT	DETECTION LIMIT
TANK#1 WEST	TPH	280	mg/kg	10
TANK#1 EAST	TPH	61	mg/kg	10
TANK#2 WEST	TPH	3800	mg/kg	10
TANK#2 EAST	TPH	1700	mg/kg	10

NOTES:
1) TPH=Total Petroleum Hydrocarbons
2) mg/kg=milligram per kilogram

4.0 SUMMARY OF FINDINGS

1) Semi-solid asphalt was observed on the surface of the ground and seeped out from the subsurface along the trench walls when heated by the sun.

2) Tanks #1 and #2 were emptied of their asphalt contents and removed from the site for recycling.

3) Tank #3 had approximately 5,550 gallons of product removed, but still contains one foot of a hard asphalt-like substance in the bottom of the tank. This tank was left in place.

4) It is unknown where the product found in and on the soil originated from. Possible sources include past tank overflows, leakage from tank #3, or leakage from tanks #1 and #2 not visually detected.

5) All soil sample TPH results exceeded detection limits ranging from 61 ppm to 3800 ppm.

5.0 RECOMMENDATIONS

There is an unknown amount of asphalt that appears to be located in the subsurface soils, and approximately one foot of semi-solid asphalt in tank #3. Tank #3 can not be transported on state highways with any material remaining in the tank. ASI recommends that tank #3 be hauled to the Stallion landfill and disposed of properly. ASI also recommends that an area immediately below the tanks of approximately 100 feet in a North-South direction and 100 feet in an East-West direction and up to five feet deep be excavated. This excavated soil can be landfilled, or used as dust suppression on dirt roads within WSMR.

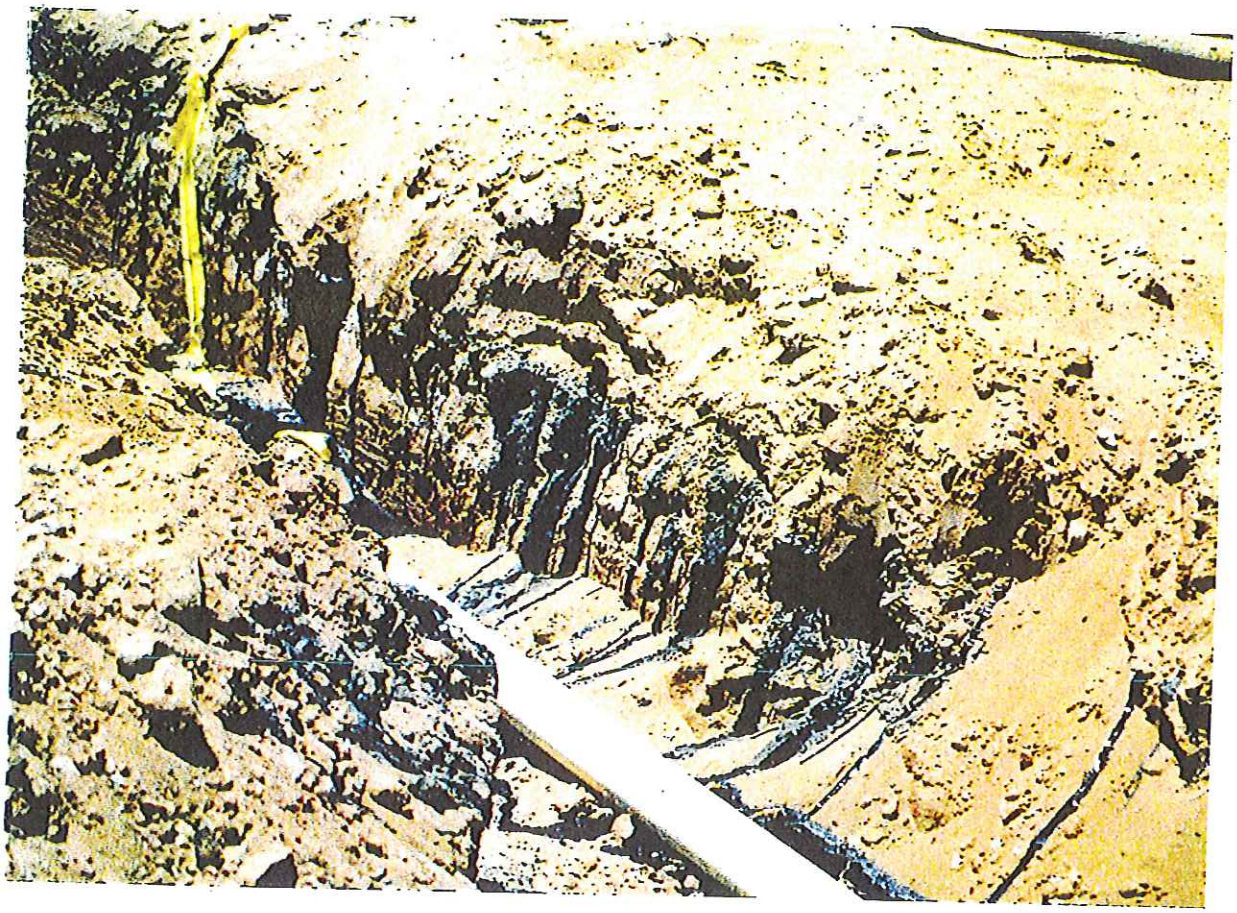
Tank #3 may be disposed of in a sanitary landfill due to the TCLP results reported above. Due to the TCLP results the asphalt in the soil may also be placed into the WSMR landfill. The asphalt was originally intended to be used for road paving, thus the asphalt in the soil can be used for dust suppression on dirt roads. This use would not deviate from the original purpose of the asphalt, and should be acceptable.

After the excavation has been completed confirmatory soil samples should be collected. The excavated area should be divided into 25 equal sample locations. Each sample to be collected should be analyzed for TPH by U.S. EPA Method 418.1 to verify that the soils with detectable TPH levels have been removed.

APPENDIX A
PHOTOGRAPHS

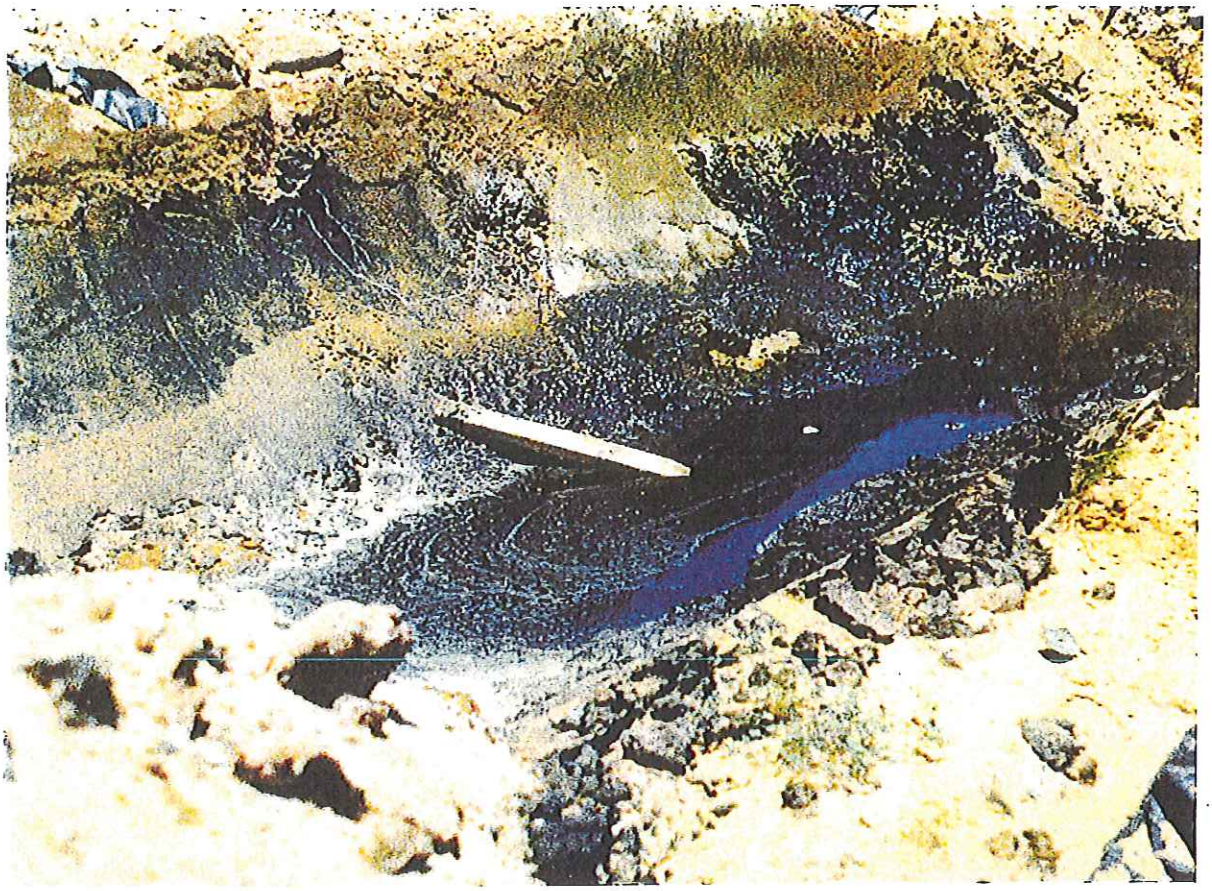
View looking North-northwest of tanks #1 and #2

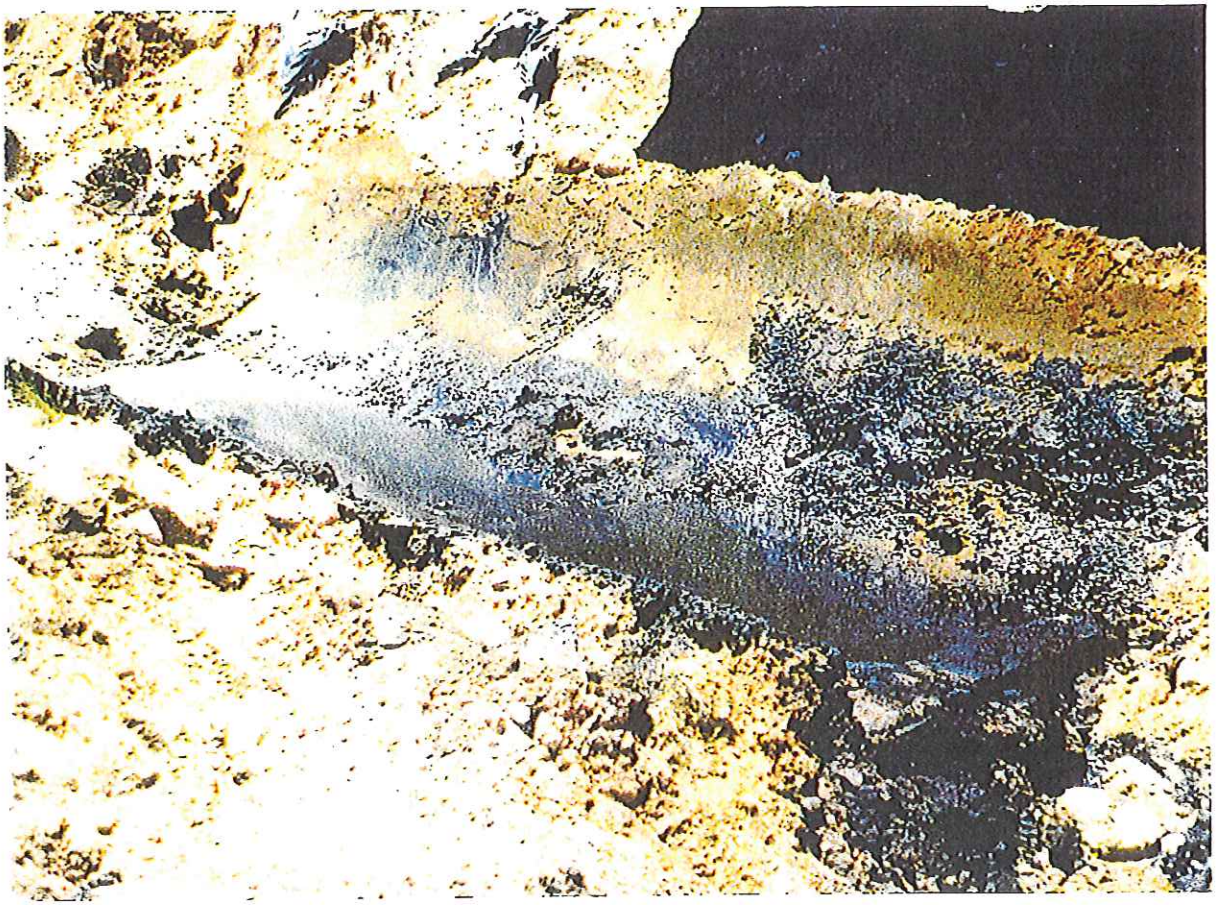
A view looking West of the tanker truck in the trench.



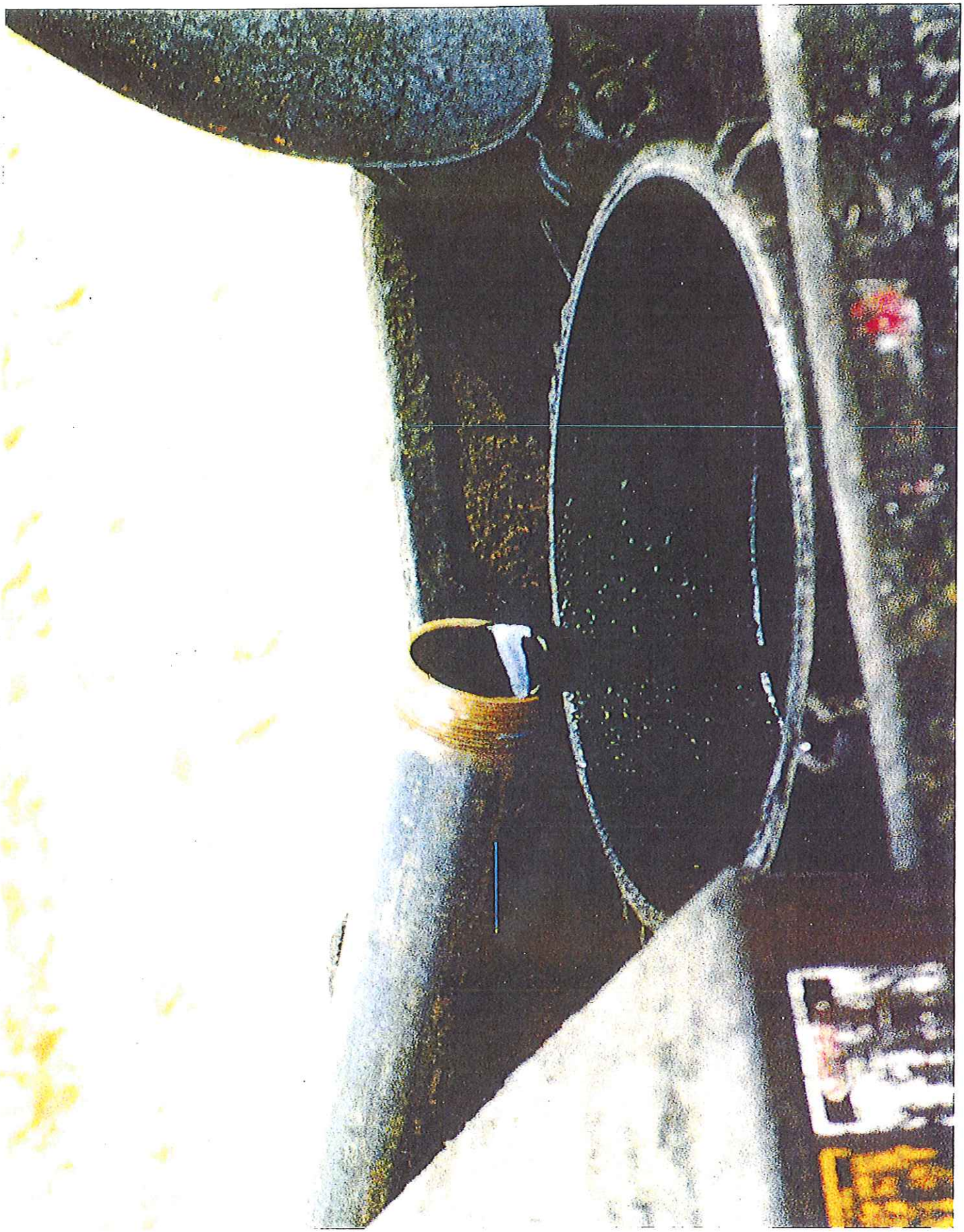
Top photo: asphalt seeping from subsurface soils in pipe trench. Bottom photo: close up of same trench with shovel for scale.

Asphalt flowing from the subsurface into the tanker trench. Note 12-inch ruler for scale.





Top photo: area below tank #1. Bottom photo: area below tank #2.



Asphalt flowing into the manway on top of the tanker truck.

View of the 4-inch tapping device, Note asphalt on ground is flowing from beneath the tank.

APPENDIX B
CERTIFICATE OF ANALYSIS
AND CHAIN-OF-CUSTODY FORMS

Westech Laboratories Inc.
The Quality People
Since 1955

10737 Gateway West, No. 100
El Paso, Texas 79935
(915) 592-3591 • fax 592-3594

CLIENT Advanced Sciences Inc.
555 S. Telshor Ste 310
Las Cruces, NM 88001

SAMPLE NO. : 6301215
INVOICE NO.: 62130297
REPORT DATE: 04-19-93
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank Composite
SAMPLE TYPE .....: Sludge
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: George Esqueda
SAMPLE SOURCE ...: Asphalt Tank

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003
SAMPLE DATE ...: 04-15-93
SUBMITTAL DATE : 04-16-93
EXTRACTION DATE: --

TCLP Metals

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date
Arsenic (TCLP) .....:	<0.05	mg/L	0.05	04-22-93
Barium (TCLP) .....:	0.12	mg/L	0.05	04-22-93
Cadmium (TCLP) .....:	<0.05	mg/L	0.05	04-22-93
Chromium (TCLP) .....:	<0.05	mg/L	0.05	04-22-93
Lead (TCLP) .....:	<0.05	mg/L	0.05	04-22-93
Mercury (TCLP) .....:	<0.01	mg/L	0.01	04-23-93
Selenium (TCLP) .....:	<0.05	mg/L	0.05	04-22-93
Silver (TCLP) .....:	<0.05	mg/L	0.05	04-22-93

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Las Cruces, NM 88001

SAMPLE NO. : 6301215
INVOICE NO.: 62130297
REPORT DATE: 04-19-93
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank Composite
SAMPLE TYPE .....: Sludge
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: George Esqueda
SAMPLE SOURCE ...: Asphalt Tank
ANALYST .....: R.Peck

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003
SAMPLE DATE ...: 04-15-93
SUBMITTAL DATE : 04-16-93
EXTRACTION DATE: 04-16-93
ANALYSIS DATE .: 04-17-93

Organic TCLP Volatiles

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Benzene	<0.5	mg/L	0.5
Carbon tetrachloride	<0.5	mg/L	0.5
Chlorobenzene	<100.	mg/L	100.
Chloroform	<6.0	mg/L	6.0
1,2-Dichloroethane	<0.5	mg/L	0.5
1,1-Dichloroethylene	<0.7	mg/L	0.7
Methyl ethyl ketone	<200.	mg/L	200.
Tetrachloroethylene	<0.7	mg/L	0.7
Trichloroethylene	<0.5	mg/L	0.5
Vinyl Chloride	<0.2	mg/L	0.2

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555 S. Telshor Ste 310
Las Cruces, NM 88001

SAMPLE NO. : 6301215
INVOICE NO.: 62130297
REPORT DATE: 04-19-93
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank Composite
SAMPLE TYPE .....: Sludge
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: George Esqueda
SAMPLE SOURCE ...: Asphalt Tank
ANALYST .....: R.PECK

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003
SAMPLE DATE ...: 04-15-93
SUBMITTAL DATE : 04-16-93
EXTRACTION DATE: 04-16-93
ANALYSIS DATE .: 04-22-93

Organic TCLP Semi - Volatiles

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Chlordane	<0.03	mg/L	0.03
o-Cresol	<200.	mg/L	200.
m-Cresol	<200.	mg/L	200.
p-Cresol	<200.	mg/L	200.
2,4-D	<10.	mg/L	10.
1,4-Dichlorobenzene	<7.5	mg/L	7.5
2,4-Dinitrotoluene	<0.13	mg/L	0.13
Endrin	<0.02	mg/L	0.02
Heptachlor	<0.008	mg/L	0.008
Hexachlorobenzene	<0.13	mg/L	0.13
Hexachloro-1,3-butadiene	<0.5	mg/L	0.5
Hexachloroethane	<3.0	mg/L	3.0
Lindane	<0.4	mg/L	0.4
Methoxychlor	<10.	mg/L	10.
Nitrobenzene	<2.0	mg/L	2.0
Heptachlor epoxide	<0.008	mg/L	0.008
Pentachlorophenol	<100.	mg/L	100.
Pyridine	<5.0	mg/L	5.0
Toxaphene	<0.5	mg/L	0.5
2,4,5-Trichlorophenol	<400.	mg/L	400.
2,4,6-Trichlorophenol	<2.0	mg/L	2.0
2,4,5-TP (Silvex)	<1.0	mg/L	1.0

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(915) 592-3591 • fax 592-3594

QUALITY CONTROL REPORT

QC IDENTIFIER .....: 34-071593-2
REFERENCE NOTEBOOK : TPH #3
REFERENCE PAGE ....: 19

INSTRUMENT : IR-TPH
ANALYZED BY : B. Flynn
ANALYZED ON : 07-15-93

NOTE -

1) NC: Not Calculable because result is < 5 times the MDL

2) NP: Not Practical because sample result is 4 times or more greater than spike added.

3) Percent Recovery is:

$$\frac{\text{Sample+Spike Result} - \text{Sample Result}}{\text{Spike Amount}} \times 100$$

4) Relative Percent Difference (RPD) is:

$$\frac{\text{Sample Result} - \text{Replicate Result}}{(\text{Sample Result} + \text{Replicate Result})/2} \times 100$$

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Flagstaff • 2400 E. Huntington Dr. • AZ 86004 • 602-774-2312 • fax 774-6469
El Paso • 10737 Gateway West #100 • TX 79935 • 915-592-3591 • fax 592-3594

CHAIN OF CUSTODY RECORD

CLIENT	ADDRESS	
ASI	555 Telshor #310	
	Las Cruces NM 88001	
TELEPHONE 505 526 7229	PROJECT 40.11.R5	JOB/P.O. NO. 40.11.R5

• REFER TO FEE SCHEDULE FOR ANALYSES SELECTION •

SAMPLER (SIGNATURE): [signature]
SAMPLER (PLEASE PRINT): Kevin Sedlak

SAMPLE TYPE CODES: S – SOIL, O – OIL, T – TRAVEL BLANK, W – WATER, G – SLUDGE, F – FIELD BLANK, X – OTHER (SPECIFY)

SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE LOCATION	COMPOSITE	GRAB	SAMPLE TYPE	NUMBER OF CONTAINERS	HOLD	REQUESTED ANALYSES: TPH 418.1	COMMENTS	LABORATORY IDENTIFICATION
Tank #1 West	7/3/95	800	Beneath Tanks		X	S	1		X		
Tank #1 East	↓	815	↓		X	S	1		X		
Tank #2 West		830			X	S	1		X		
Tank #2 East		900			X	S	1		X		

[signature] 7/24

RELINQUISHED BY (SIGNATURE)	PRINT NAME	DATE/TIME	RECEIVED BY (SIGNATURE)	PRINT NAME
[signature]	Kevin Sedlak	7/8/95		
		7/13/95	[signature]	

REMARKS: Sample [illegible] c/c
Submit [illegible] lines

SAMPLE PROCESS TURNAROUND TIME: ☑ 10 BUSINESS DAYS ☐ OTHER (SPECIFY) 5

623 (8/92) White - Testing Laboratory; Yellow - Department Job File; Pink - Client

APPENDIX C
RECEIPTS FOR RECYCLED MATERIALS

KOCH

KOCH MATERIALS COMPANY

April 30, 1993

Mr. Ron Davis
D & C Construction
Las Cruces, NM

Dear Ron:

This letter is to acknowledge the receipt of one (1) 5550 gallon truck load of asphalt material from the Stallion Sight on White Sands Missle Range. Groendyke Transport brought the load to our plant in Albuquerque on the morning of April 30.

The material was blended with 120/150 pen asphalt to be processed into emulsified asphalt.

Sincerely,

Dick Heintzelman

Dick Heintzelman
Regional Operations Manager

DH/jt

2825-G Broadbent Parkway, Northeast • Albuquerque, New Mexico 87107 • 505/345-9439
505/345-9487 • FAX

KOCH

KOCH MATERIALS COMPANY

July 13, 1993

Mr. Ron Davis
D & C CONSTRUCTION

FAX# 1-523-6076

Dear Ron:

This letter is to acknowledge the receipt of two (2) truck loads of asphalt material from the Stallion ~~Sight~~ SITE on White Sands Missle Range. Groendyke Transport brought the first load on morning of July 1st of 3980 gallons. Second load was received on morning of July 13th of 4040 gallons.

Material was blended with 180,000 gallons of(125 pen) virgin asphalt and then processed into emulsified asphalt.

Thanks for the inexpensive material and glad we could help.

Sincerely,

Dick Heintzelman

Regional Operations Manager

DH/jt

2825-G Broadbent Parkway, Northeast • Albuquerque, New Mexico 87107 • 505/345-9439
505/345-9467 • FAX 505/344-0181

PH. (505) 382-9008

TOM BLACK'S ENTERPRISES

AUTO SALVAGE & GARAGE & USED CARS

P.O. BOX 296
DONA ANA, NEW MEXICO 88032

WE GUARANTEE OUR PARTS TO BE IN GOOD WORKING CONDITION AND TO FIT - BUT WE CANNOT GUARANTEE THAT THE PARTS YOU PURCHASE WILL SOLVE YOUR PROBLEMS. NO CASH REFUNDS.

Customer's Order No. _____ Date 7/7, 19 93

Name D & C CONSTRUCTION

Address _____

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT	

QUAN.	DESCRIPTION	PRICE	AMOUNT	
APPROX	12,000 TANK			
	PICKED FROM ABOVE			
	FOR RESALE ☐ SALES TAX			
	TOTAL			

OUR SALES POLICIES

NO REFUNDS ON DEPOSITS ON MERCHANDISE ORDERED OUT OF TOWN.

We do guarantee motors not to have cracked blocks, heads, bad crankshafts for 30 days from date of this invoice.

We do guarantee parts to be in good working condition when purchased.

Exchange Must be returned within 7 days for deposit refund.

We do not make refunds through no fault of this firm.

We do not guarantee labor on defective parts.

Our liability is limited to the purchase price of above items.

NO CASH REFUNDS — NO REFUNDS ON DEPOSITS AFTER 10 DAYS.

Thank You

SIGNED _____

PH. (505) 382-9008

TOM BLACK'S ENTERPRISES

AUTO SALVAGE & GARAGE & USED CARS

P.O. BOX 296
DONA ANA, NEW MEXICO 88032

WE GUARANTEE OUR PARTS TO BE IN GOOD WORKING CONDITION AND TO FIT - BUT WE CANNOT GUARANTEE THAT THE PARTS YOU PURCHASE WILL SOLVE YOUR PROBLEMS. NO CASH REFUNDS.

Customer's Order No. _____ Date 7-8-, 1993

Name DFC Construction

Address _____

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT	Recvd

QUAN.	DESCRIPTION	PRICE	AMOUNT
	Received		
	12000 GAL TAR		
	THANK FOR Scale		
	FOR RESALE ☐	SALES TAX	
		TOTAL	

OUR SALES POLICIES

NO REFUNDS ON DEPOSITS ON MERCHANDISE ORDERED OUT OF TOWN.

We do guarantee motors not to have cracked blocks, heads, bad crankshafts for 30 days from date of this invoice.

We do guarantee parts to be in good working condition when purchased.

Exchange Must be returned within 7 days for deposit refund.

We do not make refunds through no fault of this firm.

We do not guarantee labor on defective parts.

Our liability is limited to the purchase price of above items.

NO CASH REFUNDS — NO REFUNDS ON DEPOSITS AFTER 10 DAYS.

Thank You

SIGNED _____

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Since 1955

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(915) 592-3591 • fax 592-3594

CLIENT Advanced Sciences Inc.
555 S. Telshor Ste 310
Las Cruces, NM 88001

SAMPLE NO. : 6302059
INVOICE NO.: 62130486
REPORT DATE: 07-15-93
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank #2 West
SAMPLE TYPE .....: Soil
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: Kevin Sedlak
SAMPLE SOURCE ...: Benette Tanks
ANALYST .....: B. Flynn

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003-0000
SAMPLE DATE ...: 07-08-93
SUBMITTAL DATE : 07-08-93
EXTRACTION DATE: --
ANALYSIS DATE .: 07-15-93

REMARKS -

Q.C. on this sample does not meet normal criteria. This is probably due to the presence of unequally distributed asphalt-like clumps in the sample.

Modified 418.1 - Total Petroleum Fuel Hydrocarbons

DATA TABLE

Parameter	Result	Unit	Detection Limit
Total Petroleum Hydrocarbons .....:	3800.	mg/kg	10.

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(915) 592-3591 • fax 592-3594

CLIENT Advanced Sciences Inc.
555 S. Telshor Ste 310
Las Cruces, NM 88001

SAMPLE NO. : 6301215
INVOICE NO.: 62130297
REPORT DATE: 04-19-93
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank Composite
SAMPLE TYPE .....: Sludge
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: George Esqueda
SAMPLE SOURCE ...: Asphalt Tank

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003
SAMPLE DATE ...: 04-15-93
SUBMITTAL DATE : 04-16-93
EXTRACTION DATE: --

Inorganic Non-Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
pH .....:	8.8	S.U.	N/A	04-16-93

(1) Copy to Client

Managing Director

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Flagstaff • 2400 E. Huntington Dr. • AZ 86004 • (602) 774-8708 • fax 774-6469
El Paso • 10737 Gateway West #100 • TX 79935 • (915) 592-3591 • fax 592-3594

CHAIN OF CUSTODY RECORD

CLIENT	ADDRESS
ASI	555 Telshor Blvd Suite 310 Las Cruces NM 88001
TELEPHONE: 505 522 7229	PROJECT: 51.01
	JOB / P.O. NO.: 9962411003 ~~51.0~~

• REFER TO FEE SCHEDULE FOR ANALYSES SELECTION •

SAMPLER (SIGNATURE): [signature]

SAMPLER (PLEASE PRINT): Kevin Sedlak

SAMPLE TYPE CODES: S – SOIL, W – WATER, O – OIL, G – SLUDGE, T – TRAVEL BLANK, F – FIELD BLANK, X – OTHER

CLIENT SAMPLE IDENTIFICATION NUMBER	DATE	TIME	SAMPLE LOCATION	HOLD	COMPOSITE	GRAB	SAMPLE TYPE	NUMBER OF CONTAINERS	TCLP Full	PH 9040								COMMENTS	LABORATORY SAMPLE IDENTIFICATION NUMBER
Tank Composit	4/15/93	1300	Asphalt Tanks		X		G	1	X	X								Tar	6301215

RELINQUISHED BY (SIGNATURE)	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	George Esqueda	4/16/93	8:20
George Esqueda	B. Thompson	4/16/93	1010

REMARKS: Please Fax Results ASAP upon it is available

RUSH

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CLIENT Advanced Sciences Inc.
555 S. Telshor Ste 310
Las Cruces, NM 88001

SAMPLE NO. : 6302057
INVOICE NO.: 62130486
REPORT DATE: 07-15-93
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank #1 West
SAMPLE TYPE .....: Soil
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: Kevin Sedlak
SAMPLE SOURCE ...: Benette Tanks
ANALYST .....: B. Flynn

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003-0000
SAMPLE DATE ...: 07-08-93
SUBMITTAL DATE : 07-08-93
EXTRACTION DATE: --
ANALYSIS DATE .: 07-15-93

REMARKS -

Q.C. on this run does not meet normal criteria. This is probably due to the presence of unequally distributed asphalt-like clumps in the sample.

Modified 418.1 - Total Petroleum Fuel Hydrocarbons

DATA TABLE

Parameter	Result	Unit	Detection Limit
Total Petroleum Hydrocarbons .....:	280.	mg/kg	10.

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CLIENT Advanced Sciences Inc.
555 S. Telshor Ste 310
Las Cruces, NM 88001

SAMPLE NO. : 6302058
INVOICE NO.: 62130486
REPORT DATE: 07-15-93
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank #1 East
SAMPLE TYPE .....: Soil
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: Kevin Sedlak
SAMPLE SOURCE ...: Benette Tanks
ANALYST .....: B. Flynn

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003-0000
SAMPLE DATE ...: 07-08-93
SUBMITTAL DATE : 07-08-93
EXTRACTION DATE: --
ANALYSIS DATE .: 07-15-93

REMARKS -

Q.C. on this sample does not meet normal criteria. This is probably due to the presence of unequally distributed asphalt-like clumps in the sample.

Modified 418.1 - Total Petroleum Fuel Hydrocarbons

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Total Petroleum Hydrocarbons .....:	61.	mg/kg	10.

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CLIENT Advanced Sciences Inc.
555 S. Telshor Ste 310
Las Cruces, NM 88001

SAMPLE NO. : 6302060
INVOICE NO.: 62130486
REPORT DATE: 07-15-93
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : Tank #2 East
SAMPLE TYPE .....: Soil
SAMPLED BY .....: Kevin Sedlak
SUBMITTED BY ....: Kevin Sedlak
SAMPLE SOURCE ...: Benette Tanks
ANALYST .....: B. Flynn

AUTHORIZED BY : Kevin Sedlak
CLIENT P.O. : 9967411003-0000
SAMPLE DATE ...: 07-08-93
SUBMITTAL DATE : 07-08-93
EXTRACTION DATE: --
ANALYSIS DATE .: 07-15-93

REMARKS -

Q.C. on this sample does not meet normal criteria. This is probably due to the presence of unequally distributed asphalt-like clumps in the sample.

Modified 418.1 - Total Petroleum Fuel Hydrocarbons

DATA TABLE

Parameter	Result	Unit	Detection Limit
Total Petroleum Hydrocarbons .....:	1700.	mg/kg	10.

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QUALITY CONTROL REPORT

QC IDENTIFIER .....: 34-071593-2
REFERENCE NOTEBOOK : TPH #3
REFERENCE PAGE ....: 19

INSTRUMENT : IR-TPH
ANALYZED BY : B. Flynn
ANALYZED ON : 07-15-93

TEST DESCRIPTION ..: Total Petroleum Hydrocarbons
TEST METHOD .....: 418.1

SAMPLES IN THIS RUN: 6302057 6302058 6302059 6302060 6302077 6302078 6302079 6302080 6302083

CALIBRATION CHECK -

PARAMETER	UNIT	TRUE VALUE	FOUND VALUE	%RECOVERY
Total Petroleum Hydrocarbons	mg/L	200	180.	90.0
Total Petroleum Hydrocarbons	mg/L	200	180.	90.0

REPLICATES -

SAMPLE NUMBER	PARAMETER	UNIT	RESULT	REPLICATE	RPD%
6302058	Total Petroleum Hydrocarbons	mg/kg	61.	84.	31.7

SPIKES -

SAMPLE NUMBER	PARAMETER	UNIT	SAMPLE RESULT	SPIKE AMOUNT	SAMPLE+SPIKE RESULT	%RECOVERY
6302058	Total Petroleum Hydrocarbons	mg/kg	61.	80.	130.	86.3

WESTECH
LABORATORIES, INC.
QUALITY ASSURANCE OFFICER

DATE 7-15-93

Appendix B-2
SWMUs 121 – 123 (WSMR-67):
1995 EPA Statement of Basis

WSMR Enviro Administrative Record
28800000369529
200-1H
N105-PER
1995

STATEMENT OF BASIS - FINAL DECISION AND RESPONSE TO COMMENTS SUMMARY

U. S. ARMY WHITE SANDS MISSILE RANGE NEW MEXICO

EPA ANNOUNCES STATEMENT OF BASIS/FINAL DETERMINATION AND RESPONSE TO COMMENTS SUMMARY

In this Statement of Basis, the U.S. Environmental Protection Agency (EPA) has made a final determination to approve the White Sands Missile Range (WSMR) Class III permit modification request to remove twenty-four (24) solid waste management units (SWMUs) from its Corrective Action permit (EPA Identification Number NM2750211235).

Facility Type: WSMR is a storage facility. It accumulates quantities of waste necessary to facilitate proper recovery, treatment, or disposal.

Contaminants: The facility operations generated spent solvents, paint strippers, waste paints, waste oils, waste hydraulic fluids, and waste fuel at concentrations below regulatory levels.

Media: The primary media impacted by a release from the SWMUs are soils.

Remedy: EPA has determined no further action is required at the listed SWMUs.

A. FACILITY DESCRIPTION

WSMR is located in the Tularosa Basin of south central New Mexico, about thirty (30) miles east of Las Cruces, New Mexico. The range covers an area of approximately 3200 square miles. WSMR is a government owned facility under the command of the U.S. Army Testing and Evaluation Command. WSMR was established in July 1945 as the White Sands Proving Ground. The property is used to test rocket, missile, and laser weapon systems. Wastes generated at the facility are mainly related to missile testing operation and associated support facilities, fire training, refueling facilities, equipment maintenance, and vehicle maintenance. Prior to the mid 1980's, hazardous wastes generated at the facility might have been disposed on-site in some of the SWMUs identified. Since then, hazardous wastes have been disposed off-site through the Defense Reutilization and Marketing Office.

200-1H
N105-PER
1995

B. HISTORY OF INVESTIGATION

WSMR was issued a Corrective Action Permit on October 24, 1989. As a result of the RCRA Facility Assessment and a Class I permit modification (1994) to add one additional SWMU to the permit 139 SWMUs and 26 AOCs were identified. Ninety-two (92) were included in the HSWA permit issued and required to go through the RCRA Facility Investigation process. These 93 SWMUs were divided into four (4) groups, Appendix I - 18 SWMUs, Appendix II - 18 SWMUs, Appendix III - 40 SWMUs, and Appendix IV - 17 SWMUs.

Under the corrective action process WSMR is required to determine the type, concentration and extent of hazardous waste released into the environment at all SWMU sites. Once the delineation is complete WSMR must recommend corrective action options to remove hazardous waste from the affected media. Corrective action options must be approved by EPA. The Phase I RFI investigation for Appendix I SWMUs was completed, the final report submitted to EPA for review, and approved in April 1992. The Phase I RFI final report field investigation for Appendices II, III, and IV SWMUs was approved in September 1993.

C. INVESTIGATION RESULTS

At the completion of Phase I of the RCRA Facility Investigation WSMR submitted a Class III Permit Modification listing thirty-eight (38) SWMUs to be removed from the corrective action process based on field and analytical results which indicate little or no contamination exist at these sites. EPA reviewed the RFI report and the Class III Permit Modification and has determined that twenty-four (24) of the thirty-eight (38) SWMUs require no further investigation and can be delisted or removed from WSMRs corrective action permit. The list of SWMUs identified for delisting from WSMRs corrective action permit is attached. The remaining SWMUs will be included in the Phase II investigation of the RFI process.

A copy of the permit, the Class III permit modification request, EPA's final determination/statement of basis, analytical data supporting EPAs final decision and supporting documents may be reviewed at:

Alamogordo Public Library
10th and Oregon Avenue
Alamogordo, NM Learning Resources Center

El Paso Community College
Transmountain Campus
9570 Gateway North
El Paso, TX

Branigan Memorial Library, Suite 200 E
Picacho, Las Crusas, NM

Public Affairs Office
White Sands Missile Range, NM

D. STABILIZATION MEASURES IMPLEMENTED

No stabilization measures are necessary.

E. EXPOSURE PATHWAYS

The only media for potential impacts to the environment is soil.

F. ENVIRONMENTAL JUSTICE INDEX

The minority population within 50 square miles of study area is less than one percent

New Mexico has a minority population that is 49 percent of the total population of the State.

Within 50 square miles of study area there are less than one percent minority econmocally stressed housholds (Note: Economically stressed is defined as households making less than $15,000 a year):

G. SELECTED REMEDY

EPA's determination for no further action is based on analytical and fieldwork results which show no or insignificant release(s) of hazardous waste into the environment. In addition EPA performed risk screening on SWMUs which had insignificant release(s) of hazardous waste into the environment.

Table I lists the highest concentrations of constituents detected at any SWMU during the investigation. The levels are compared against State and Federal concentration levels. Table I also lists residential risk based concentrations and proposed Federal action levels which the hazardous constituent concentrations are screened. Results indicate the releases have no impact on human health and the environment.

H. INNOVATIVE TECHNOLOGIES CONSIDERED

No innovative technologies are required under this determination.

I. PUBLIC PARTICIPATION

Public hearings were held by WSMR at three locations. The first hearing was held on March 22, 1994, in Conference Room D, Alamogordo Civic Center, 800 East 1st Street, Alamogordo, NM. Six people attended the meeting including local citizens, representatives from the WSMR and the Alamogordo Daily news.

Five questions were asked concerning the history of the paint dump site, cleanup criteria and disposal of ordinance. WSMR responded by saying abandoned sealed paint cans were found in a dump site. The cans were removed and the underlying soils were tested for hazardous waste. Analytical results from confirmation sampling showed no hazardous materials in the soils. WSMR representatives said specific bombing areas are designated for warhead impacts and any unexploded or exploded ordinance are recovered. The area was made pristine for further ordinance testing.

The second hearing was held March 23, 1994, in the National Guard Armory, 9100 Gateway North, El Paso, TX. No one attended the meeting.

The third hearing was held March 24, 1994, in the Curry Room, Corbett Center, New Mexico State University, Las Cruces, NM. Seven people attended including two representatives from WSMR.

Five questions were asked concerning what does the taxpayer gain by having this hearing and by removing the twenty-four (24) sites. In addition questions were asked about further investigations at WSMR, and how to expedite removing sites that pose no threat to the public. WSMR responded that by removing sites which pose no threat to the public, funding can be redirected to more practical useful purposes.

WSMR also said since it is regulated by a RCRA/HSWA, permit it is required to continuously monitor the facility for known and potential threats to human health and the environment. In addition, WSMR indicated that by good communication and providing adequate evidence to the regulatory community, the process of requesting and receiving approval to remove sites which pose no threat to human health and the environment can be streamlined.

I. NEXT STEPS

In addition to advertising the final decision EPA will notify the applicant and each person on the public comment mailing list of the final decision. The final decision will become effective thirty (30) days after service of notice of the decision unless a later date is specified or review is requested under regulation 40 CFR 124.19. If no comments are received to request a change in the final determination, the decision to approve the application will become effective immediately upon issuance.

CONTACT:

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Discussion of SWMU's Requiring No Further Investigation Under the Class III Permit Modification Process.

APPENDIX I SWMU's:

SWMU # 18, Waste Accumulation Area: The unit is currently active. It is used to accumulate discarded rags and cans of petroleum, oils and lubricants (POLs) on an asphalt pavement underlain by a gravel base. No contamination was detected above regulatory or proposed action levels. Sample concentrations were screened against and exceeded residential risk concentration levels for total petroleum hydrocarbons (TPH). The samples are taken from a degraded asphalt drainage ditch. Typically TPH is a constituent of asphalt and POLs. Since no regulatory or proposed action levels were exceeded no further action is necessary under the corrective action process. WSMR has volunteered to work with the New Mexico Environment Department to determine if any improvements to the drainage ditch is required.

SWMU # 62, Former Sewer Treatment Plant: The unit is a buried Imhoff tank that may have contained toxic heavy metals, petroleum hydrocarbons and solvents. Operations at the tank were terminated in 1958. No contamination was detected via test borings and field geophysics tentatively identified the tank, no further investigation will be required. However WSMR should consult with the New Mexico Environment Department (NMED) RCRA program for removal of the tank.

SWMU # 79, STP Sludge Beds: The unit is currently active, and consist of a series of 11 parallel parallel beds used for drying sewage treatment plant sludge. The sludges are non-hazardous and should be disposed of at a non-hazardous waste facility.

APPENDIX II SWMU's:

SWMU #'s 33/34 HELSTF Flurspar Tanks: These tanks are drying beds for fluorspar sludge which is transported to the tanks from the Laser System Pressure Recovery System via a 4 inch poly-vinyl-chloride line. Periodically the dried fluorspar is removed for off-site disposal. The sludges are non-hazardous and should be disposed of at a non-hazardous waste facility.

SWMU # 61, Tula Peak Unexploded Ordinance Incinerator: The unit is inactive and contains partially melted cluster bomb units and military ordinance. Soil sampling results detected no waste source or release. No further action under the corrective action process is required. WSMR has volunteered to close the site under NMEDs Solid Waste program.

APPENDIX III SWMU's

SWMU # 90 Hazardous Waste Storage Evaporation Tank: The tank was used to to evaporate liquid waste from photograpic laboratory processes. The remaining sludge was removed, drummed, and disposed of in a hazardous waste landfill. The unit is undergoing closure through the NMED RCRA program. Consequently no further action under the corrective action process is required for this unit.

SWMU # 92A, 93, 95 - 100, Liquid Propellent Storage Area Pits (Evaporation - Neutralization Pits): These units are unlined and were designed to collect spilled material from respective storage areas via a drain and pipe. No hazardous constituents were detected above regulatory standards. Consequently no further action is required. WSMR has volunteered to upgrade the pits to prevent future discharges to the surface/subsurface and subsequent releases to ground water media.

SWMU #'s 121-123 Stallion Range Center Subgrade Tanks: The units are inactive subgrade steel tanks. No hazardous constituents were detected and the tanks are empty. The units are no longer required to follow the corrective action process. WSMR has volunteered to coordinate the removal of the tanks with NMED's RCRA program.

SWMU # 137, Paint Shop Sump: The unit is used as a drain or receptacle for wastewater discharging from the paint shop spray booth. The sump is intact. No releases were detected outside of the sump. Sludges and surface water from the sump exceed regulatory limits and should be disposed of as a hazardous waste.

APPENDIX IV SWMU's

SWMU #141 HELSTF Equipment Storage Area: The unit is utilized for storage of various materials for the High Energy Laser System Test Facility operation. No releases above regulatory levels were detected. No further action is required at this unit.

SWMU # 149, Maintenance Bldg Septic System (HELSTF); SWMU # 151, Trailer Area Septic System (HELSTF); SWMU # 152, Property and Supply Septic System (HELSTF): All the septic systems are active. Sampling results detected selenium levels exceeding MCL limits and State ground water protection standards. The RFI reference data indicate high concentrations of selenium are naturally occurring in the ground water regime at WSMR. EPA's determination is no further action is necessary.

SWMU # 153, Vandal Burial Site: The unit is an open field with partially buried and excavated missile and rocket parts and shell casings. No hazardous constituents were detected. Trace Bis(2-ethylhexyl)phthalate (commonly associated with poly vinyl chloride monitor well casing and plastics) below the Subpart S action level was detected. WSMR has volunteered to clear the site of any potential hazards posed by exposed and buried debris. No further investigation under the corrective action process will be required.

TABLE I
HAZARDOUS CONSTITUENT CONCENTRATION COMPARISIONS

Constituent	Highest Concentration (mg/kg)	New Mexico Land Disposal Standard	Federal Land Disposal Standard (mg/l)	Proposed Subpart S Action Level (mg/kg)	Residential Risk Based Concentrations, Soil Ingestion Level (mg/kg)[1]
Arsenic	22	D	5	80	23
Barium	1600	D	100	4000	5500
Lead	35	D	5	NA	400
Mercury	0.13	D	0.2	20	23
Cadmium	1.0	D	1	40	39
Chromium	63	D	5	NA	390
Beta-BHC (HCH (Beta)	0.0059	NA	*	4	.35
4,4'-DDE	.022	NA	*	2	1.9
4,4'DDT	.06	NA	*	2	2.7
Total Cyanide	1.8	D	590	2000	390
Methylene Chloride	0.023	NA	*	90	85
Silver	48	D	5	200	390
Total Petroleum Hydrocarbons: Benzo(a)pyrene	52	1000	NA	NA	.088

1 = From the EPA Region III Risk-Based Concentration Table, January - June 1995

D = Defer to Federal Standards

* = Land disposal of solid wastes with total halogenated organic compounds greater than or equal to 1,000 mg/kg is restricted per 40CFR, 268.32(e)(2)

TABLE 2-2
SOIL ANALYTICAL RESULTS
SWMU 18 (Page 1 of 5)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	18SB-1 @ 2 / Soil / 2 feet / 03/27/91	18SB-1 @ 5 / Soil / 5 feet / 03/27/91	18SB-1 @ 10 / Soil / 10 feet / 03/27/91	18SB-1 @ 15 / Soil / 15 feet / 03/27/91	18SB-1B @ 15 / Soil / 15 feet / 03/27/91
INORGANICS		**TC LEVEL[2]**					
Arsenic	mg/kg	100	1.2	ND	ND	0.72	ND
Barium	mg/kg	2000	46	54	35	34	34
Chromium	mg/kg	100	8.6	4.8	4.8	7.3	7.1
Lead	mg/kg	100	5.1	3.2	3.8	8.1	4.4
MISCELLANEOUS							
Total Petroleum Hydrocarbons	mg/kg	NA	52	15	ND	ND	ND

TABLE 2-2
SOIL ANALYTICAL RESULTS
SWMU 18 (Page 2 of 5)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	18SB-1 @ 20 Soil 20 feet 03/27/91	18SB-2 @ 2 Soil 2 feet 03/27/91	18SB-2B @ 2 Soil 2 feet 03/27/91	18SB-2 @ 5 Soil 5 feet 03/27/91	18SB-2 @ 10 Soil 10 feet 03/27/91
PESTICIDES AND PCB's		**TC LEVEL[2]**					
4, 4'-DDE	mg/kg	NA	ND	0.012	0.012	ND	ND
4, 4'-DDT	mg/kg	NA	ND	0.06	0.06	0.013	ND
INORGANICS							
Silver	mg/kg	100	ND	ND	1.5	ND	ND
Arsenic	mg/kg	100	ND	0.90	1.1	0.53	0.61
Barium	mg/kg	2000	20	48	45	33	65
Chromium	mg/kg	100	3.2	9.6	7.6	4.9	6.1
Lead	mg/kg	100	3.5	5.4	5.2	4.2	5.2
MISCELLANEOUS							
Total Petroleum Hydrocarbons	mg/kg	NA	ND	25	16	ND	ND

TABLE 2-2
SOIL ANALYTICAL RESULTS
SWMU 18 (Page 3 of 5)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	18SB-2 @ 15 / Soil / 15 feet / 03/27/91	18SB-2 @ 20 / Soil / 20 feet / 03/27/91	18SB-3 @ 2 / Soil / 2 feet / 03/27/91	18SB-3 @ 5 / Soil / 5 feet / 03/27/91	18SB-3 @ 10 / Soil / 10 feet / 03/27/91
INORGANICS		**TC LEVEL[2]**					
Silver	mg/kg	100	ND	ND	1.1	1.3	ND
Arsenic	mg/kg	100	ND	ND	0.92	ND	0.57
Barium	mg/kg	2000	57	29	69	16	82
Chromium	mg/kg	100	5.6	4.7	9.1	2.7	7.0
Lead	mg/kg	100	4.6	3.1	6.4	4.5	6.2
MISCELLANEOUS							
Total Petroleum Hydrocarbons	mg/kg	NA	ND	25	ND	15	24

TABLE 2-2
SOIL ANALYTICAL RESULTS
SWMU 18 (Page 4 of 5)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	18SB-3 @ 15 / Soil / 15 feet / 03/27/91	18SB-3 @ 20 / Soil / 20 feet / 03/27/91	18SB-4 @ 2 / Soil / 2 feet / 03/27/91	18SB-4 @ 5 / Soil / 5 feet / 03/27/91	18SB-4 @ 10 / Soil / 10 feet / 03/27/91
INORGANICS		**TC LEVEL[2]**					
Silver	mg/kg	100	ND	ND	ND	ND	17
Arsenic	mg/kg	100	0.51	ND	1.1	ND	ND
Barium	mg/kg	2000	24	36	110	19	22
Chromium	mg/kg	100	6.2	5.3	8.5	3.3	3.3
Lead	mg/kg	100	5.3	5.0	7.0	4.4	4.8
MISCELLANEOUS							
Total Petroleum Hydrocarbons	mg/kg	NA	15	21	ND	ND	ND

TABLE 2-2
SOIL ANALYTICAL RESULTS
SWMU 18 (Page 5 of 5)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	18SB-4 @ 15 Soil 15 feet 03/27/91	18SB-4 @ 20 Soil 20 feet 03/27/91	18BG-01 Soil 5 feet 04/15/91
INORGANICS		**TC LEVEL[2]**			
Silver	mg/kg	100	7.6	ND	ND
Arsenic	mg/kg	100	0.59	ND	0.81
Barium	mg/kg	2000	44	23	35
Chromium	mg/kg	100	4.3	4.7	4.8
Lead	mg/kg	100	5.4	3.9	3.4
MISCELLANEOUS					
Total Petroleum Hydrocarbons	mg/kg	NA	ND	ND	14

NOTES:
* = Sample identification nomenclature is described in 3.1.1 of Volume 1 of the RFI Report.
[1] Only samples with constituent concentrations above the detection limit are noted; concentrations exceeding TC levels are in bold type.
[2] From Toxicity Characteristic--Final Rule; values are in mg/L; values for inorganics are twenty times the TC leachate level -- see text for explanation.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.
NA = Not applicable.

TABLE 2-8
SOIL ANALYTICAL RESULTS
SWMU 62 (Page 1 of 3)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	62SB-1 @ 25 Soil 25 feet 03/30/91	62SB-1B @ 25 Soil 25 feet 03/30/91	62SB-1 @ 30 Soil 30 feet 03/30/91	62SB-1B @ 30 Soil 30 feet 03/30/91	62SB-1 @ 35 Soil 35 feet 03/30/91
INORGANICS		**TC LEVEL[2]**					
Barium	mg/kg	2000	13	16	15	30	25
Chromium	mg/kg	100	3.2	3.6	2.8	6.0	7.6
Lead	mg/kg	100	4.2	24	8.1	8.1	8.0

TABLE 2-8
SOIL ANALYTICAL RESULTS
SWMU 62 (Page 2 of 3)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	62SB-2 @ 30 / Soil / 30 feet / 03/30/91	62SB-2 @ 35 / Soil / 35 feet / 03/30/91	62SB-3 @ 25 / Soil / 25 feet / 03/30/91	62SB-3 @ 30 / Soil / 30 feet / 03/30/91	62SB-3 @ 35 / Soil / 35 feet / 03/30/91
INORGANICS		**TC LEVEL[2]**					
Arsenic	mg/kg	100	0.48	0.56	ND	0.72	0.63
Barium	mg/kg	2000	24	34	22	42	41
Chromium	mg/kg	100	4.7	8.3	2.9	5.8	8.7
Lead	mg/kg	100	5.3	6.1	4.2	8.0	11

TABLE 2-8
SOIL ANALYTICAL RESULTS
SWMU 62 (Page 3 of 3)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	62SB-4 @ 25 / Soil / 25 feet / 03/30/91	62SB-4 @ 30 / Soil / 30 feet / 03/30/91	62SB-4 @ 35 / Soil / 35 feet / 03/30/91	62BKG @ 30 / Soil / 30 feet / 03/28/91
INORGANICS		**TC LEVEL[2]**				
Arsenic	mg/kg	100	ND	0.51	ND	ND
Barium	mg/kg	2000	12	20	53	21
Chromium	mg/kg	100	4.3	4.9	8.6	3.4
Lead	mg/kg	100	4.1	7.5	6.1	4.4

NOTES:
* = Sample identification nomenclature is described in 3.1.1 of Volume 1 of the RFI Report.
(1) Only samples with constituent concentrations above the detection limit are noted; concentrations exceeding TC levels are in bold type.
(2) From Toxicity Characteristic--Final Rule; values are in mg/L; values for inorganics are twenty times the TC leachate level -- see text for explanation.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.
NA = Not applicable.

TABLE 2-5
SOIL ANALYTICAL RESULTS
SWMUs 33-34 (Page 1 of 4)
FLUORSPAR TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	33/34BGSO01	33/34BGSO02	33/34BGSSD	33/34B1SSO	33/34B1SO01
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	1 foot	2 feet	Surface	Surface	1 feet
		SAMPLE DATE:	04/4/92	04/4/92	04/4/92	04/7/92	04/7/92
pH	None		8.0	8.0	8.0	8.0	7.8
Fluoride	mg/kg		0.60	1.1	0.83	0.98	0.49

TABLE 2-5
SOIL ANALYTICAL RESULTS
SWMUs 33-34 (Page 2 of 4)
FLUORSPAR TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	33/34B1SO02	33/34B1SO02B	33/34B2SSO	33/34B2SO01
		SAMPLE TYPE:	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	2 feet	2 feet	Surface	1 feet
		SAMPLE DATE:	04/7/92	04/7/92	04/7/92	04/7/92
pH	None		7.9	8.0	7.9	8.1
Fluoride	mg/kg		0.35	0.37	0.65	0.51

TABLE 2-5
SOIL ANALYTICAL RESULTS
SWMUs 33-34 (Page 3 of 4)
FLUORSPAR TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	33/34B2SO01B	33/34B2SO02	33/34B3SSO	33/34B3SO01
		SAMPLE TYPE:	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	1 foot	2 feet	Surface	1 feet
		SAMPLE DATE:	04/7/92	04/7/92	04/7/92	04/7/92
pH	None		8.0	8.0	8.0	7.9
Fluoride	mg/kg		0.54	0.50	0.74	0.49

TABLE 2-5
SOIL ANALYTICAL RESULTS
SWMUs 33-34 (Page 4 of 4)
FLUORSPAR TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	33/34B3SO02	33/34B4SSO	33/34B4SO0	33/34B4SO02
		SAMPLE TYPE:	Soil	Soil	1	Soil
		SAMPLE DEPTH:	2 feet	Surface	Soil	2 feet
		SAMPLE DATE:	04/7/92	04/7/92	1 foot	04/7/92
					04/7/92	
pH	None		7.8	8.1	7.8	7.5
Fluoride	mg/kg		0.46	0.65	0.48	0.36

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.

TABLE 2-6
GROUNDWATER ANALYTICAL RESULTS
SWMUs 33-34 (Page 1 of 1)
FLUORSPAR TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	HMW-19GW
		UPGRADIENT/DOWNGRADIENT:	DG
		SAMPLE TYPE:	Water
		SAMPLE DATE:	05/30/92
INORGANICS			
Fluoride	mg/L		2.3

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.

TABLE 2-15
SOIL AND SLUDGE ANALYTICAL RESULTS
SWMU 79 (Page 1 of 2)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	79/80BKG11 Soil 1 foot 03/12/91	79B11 Soil 1 foot 03/12/91	79B12 Soil 2 feet 03/12/91	79B21 Soil 1 foot 03/12/91	79B22 Soil 2 feet 03/12/91	79B31 Soil 1 foot 03/12/91	79B32 Soil 2 feet 03/12/91
INORGANICS		**TC LEVEL[2]**							
Silver	mg/kg	100	26	ND	ND	ND	ND	ND	ND
Arsenic	mg/kg	100	0.85	ND	0.71	0.64	0.88	ND	1.0
Barium	mg/kg	2000	59	49	53	43	58	59	54
Chromium	mg/kg	100	63	6.2	7.0	7.4	9.8	7.4	8.5
Mercury	mg/kg	4	0.13	ND	ND	ND	ND	ND	ND
Lead	mg/kg	100	10	7.0	7.4	7.1	7.6	7.1	7.1
Total cyanide	mg/kg	NA	1.8	ND	ND	ND	ND	ND	ND

TABLE 2-15
SOIL AND SLUDGE ANALYTICAL RESULTS
SWMU 79 (Page 2 of 2)
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX I SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[1]	UNITS OF MEASURE	SAMPLE ID*: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	79B41 Soil 1 foot 03/12/91	79B42 Soil 2 feet 03/12/91	79C11 Sludge Surface 03/12/91	79CTR1 Sludge Surface 03/12/91	79C1 Sludge Surface 03/12/91	79C2 Sludge Surface 03/12/91	79C3 Sludge Surface 03/12/91
EXTRACTABLES		**TC LEVEL[2]**							
Phenanthrene	mg/kg	NA	ND	ND	ND	ND	ND	1.1	ND
Pyrene	mg/kg	NA	ND	ND	ND	ND	ND	1.1	ND
Bis(2-Ethylhexyl)phthalate	mg/kg	NA	ND	ND	4.7	20	43	66	52
Di-n-octylphthalate	mg/kg	NA	ND	ND	ND	ND	ND	2.1	ND
INORGANICS									
Silver	mg/kg	100	ND	ND	68	93	88	76	74
Arsenic	mg/kg	100	0.92	0.99	ND	3.3	2.6	1.8	0.5
Barium	mg/kg	2000	55	50	160	610	740	860	610
Cadmium	mg/kg	20	ND	ND	2.1	15	16	13	9.4
Chromium	mg/kg	100	9.1	7.2	**110**	**460**	**430**	**530**	**320**
Mercury	mg/kg	4	ND	ND	3.1	**10**	**6.7**	**5.6**	**5.2**
Lead	mg/kg	100	6.9	9.0	60	**250**	**270**	**250**	**200**
Selenium	mg/kg	20	ND	ND	1.1	6.2	5.9	13	6.2
Total cyanide	mg/kg	NA	ND	ND	9.0	19	13	16	22

NOTES:
* = Sample identification nomenclature is described in 3.1.1 of Volume 1 of the RFI Report.
[1] Only samples with constituent concentrations above the detection limit are noted; concentrations exceeding TC levels are in bold type.
[2] From Toxicity Characteristic--Final Rule; values are in mg/L; values for inorganics are twenty times the TC leachate level -- see text for explanation.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.
NA = Not applicable.

TABLE 2-11
SOIL AND SLUDGE ANALYTICAL RESULTS
SWMU 90 (Page 1 of 3)
HWSF EVAPORATION TANK
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	90B1SO05 Soil 5 feet 05/19/92	90B1SO10 Soil 10 feet 05/19/92	90B1SO15 Soil 15 feet 05/19/92	90B1SO20 Soil 20 feet 05/19/92
INORGANICS						
Barium	mg/kg		39	150	ND	ND
Lead	mg/kg		ND	5.7	5.3	6.1

TABLE 2-11
SOIL AND SLUDGE ANALYTICAL RESULTS
SWMU 90 (Page 2 of 3)
HWSF EVAPORATION TANK
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	90SL1 Sludge Surface 04/20/92	90SL2 Sludge Surface 4/20/92	90SL3 Sludge Surface 04/20/92	90SL4 Sludge Surface 04/20/92	90SL5 Sludge Surface 04/20/92	90SL6 Sludge Surface 04/20/92
INORGANICS								
Barium	mg/kg		38	ND	38	51	40	32
Lead	mg/kg		9.2	ND	7.3	9.2	9.0	7.3
Silver	mg/kg		12	5.3	9.6	8.5	18	14
Total Cyanide	mg/kg		30	5.6	8.6	39	59	37
Sulfide	mg/kg		12	8.0	ND	8.0	24	12
TCLP INORGANICS								
Silver	mg/L		0.14	ND	0.13	0.11	0.24	0.33
PESTICIDES/PCBs								
PCB-1260	mg/kg		0.060	ND	0.062	0.063	0.16	0.11
MISCELLANEOUS								
pH	NA		7.5	8.1	7.1	8.0	7.9	7.8

TABLE 2-11
SOIL AND SLUDGE ANALYTICAL RESULTS
SWMU 90 (Page 3 of 3)
HWSF EVAPORATION TANK
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II & III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	90SL6B Sludge Surface 04/20/92	90SL7 Sludge Surface 04/20/92	90SL8 Sludge Surface 04/20/92	90SL9 Sludge Surface 04/20/92	90SL10 Sludge Surface 04/20/92
INORGANICS							
Barium	mg/kg		ND	62	49	37	48
Lead	mg/kg		ND	19	12	10	7.4
Silver	mg/kg		25	7.4	6.7	14	7.7
Total Cyanide	mg/kg		39	34	94	36	22
Sulfide	mg/kg		12	8.0	8.0	12	8.0
TCLP INORGANICS							
Silver	mg/L		0.42	0.11	0.12	0.34	0.17
PESTICIDES/PCBs							
PCB-1260	mg/kg		0.088	0.10	0.086	0.076	0.056
MISCELLANEOUS							
pH	NA		7.5	8.0	8.1	7.8	7.8

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.
NA = Not applicable.

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 1 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	92-100BKGSO05	92-100BKGSO15	92-100BKGSO25	92-100TB7
		SAMPLE TYPE:	Soil	Soil	Soil	Trip blank Water
		SAMPLE DEPTH:	5 feet	15 feet	25 feet	
		SAMPLE DATE:	03/10/92	03/10/92	03/10/92	02/03/92
VOLATILES						
Acetone[3]	mg/kg		1.2	2.0	0.15	ND
Methylene chloride[4]	mg/L		ND	ND	ND	0.012
INORGANICS						
Barium	mg/kg		72	120	730	NT
Lead	mg/kg		12	ND	11	NT
MISCELLANEOUS						
pH	NA		7.8	7.9	7.9	NT

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 2 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	92ASS0RS	92ASO02	92ASO05	92ASO10	92ASO15	92ASO20	92ASO25
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	Surface	2 feet	5 feet	10 feet	15 feet	20 feet	25 feet
		SAMPLE DATE:	03/17/92	03/09/92	03/09/92	03/09/92	03/09/92	03/09/92	03/09/92
VOLATILES									
Acetone[3]	mg/kg		0.16	ND	9.2	ND	0.12	0.67	ND
INORGANICS									
Arsenic	mg/kg		ND	ND	ND	12	ND	ND	ND
Barium	mg/kg		25	100	160	77	62	140	37
Cadmium	mg/kg		ND	ND	ND	ND	ND	0.65	ND
Lead	mg/kg		11	9.7	9.6	7.7	12	15	5.4
MISCELLANEOUS									
pH	NA		8.0	8.3	8.4	8.2	7.8	7.7	8.6

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 3 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	92AS030	92BSSORS	92BSO02	92BSO02B	92BSO05	92BSO10	92BSO15
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	30 feet	Surface	2 feet	2 feet	5 feet	10 feet	15 feet
		SAMPLE DATE:	03/09/92	03/17/92	03/04/92	03/04/92	03/04/92	03/04/92	03/04/92
VOLATILES									
Acetone[3]	mg/kg		0.19	0.24	0.48	0.35	ND	ND	0.11
Methylene chloride[4]	mg/kg		ND	0.023	ND	ND	ND	ND	ND
EXTRACTABLES									
Bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	0.94	0.82	0.38	0.52	ND
Di-n-butylphthalate	mg/kg		ND	0.56	ND	ND	ND	ND	ND
INORGANICS									
Arsenic	mg/kg		ND	ND	ND	ND	ND	ND	16
Barium	mg/kg		63	ND	51	160	240	430	170
Lead	mg/kg		ND	5.1	ND	ND	ND	ND	12
Silver	mg/kg		5.7	37	48	28	ND	ND	ND
MISCELLANEOUS									
pH	NA		8.7	5.6	5.1	4.5	8.2	6.5	7.5

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 4 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	92BS020	92BSO25	92BSO30	93SSORS	93SO02	93SO05	93SO10
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	20 feet	25 feet	30 feet	Surface	2 feet	5 feet	10 feet
		SAMPLE DATE:	03/09/92	03/04/92	03/04/92	03/17/92	03/09/92	03/09/92	03/09/92
VOLATILES									
Acetone[3]	mg/kg		ND	0.13	ND	0.11	5.8	0.96	0.83
EXTRACTABLES									
Bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	1.7	ND	ND	ND	ND
Di-n-butylphthalate	mg/kg		ND	ND	ND	0.37	ND	ND	ND
INORGANICS									
Arsenic	mg/kg		ND	11	ND	ND	ND	ND	ND
Barium	mg/kg		56	39	32	28	26	27	100
Lead	mg/kg		5.9	15	ND	12	8.2	8.5	9.4
MISCELLANEOUS									
pH	NA		8.0	8.0	8.1	7.6	8.0	8.6	8.5

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 5 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	93SO15	93SO20	93SO25	93SO30	94SSORS	94SO02RS	94SO05RS
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	15 feet	20 feet	25 feet	30 feet	Surface	2 feet	5 feet
		SAMPLE DATE:	03/09/92	03/10/92	03/09/92	03/09/92	03/17/92	03/11/92	03/1/92
VOLATILES									
Acetone[3]	mg/kg		0.38	ND	ND	0.12	ND	ND	21
EXTRACTABLES									
Bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	ND	ND	0.76[6]	ND	ND
Benzidine	mg/kg		ND	ND	ND	ND	3.3[6]	ND	ND
N-nitrosodimethylamine	mg/kg		ND	ND	ND	ND	0.67[6]	ND	ND
INORGANICS									
Arsenic	mg/kg		ND	ND	ND	13	ND	ND	ND
Barium	mg/kg		ND	ND	38	81	32	34	49
Cadmium	mg/kg		ND	ND	ND	ND	ND	0.65	ND
Lead	mg/kg		ND	ND	8.4	13	13	27	11
MISCELLANEOUS									
pH	NA		8.5	8.4	8.1	7.9	6.5	5.3	7.3

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 6 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	94SO10RS	94SO15RS	94SO15BRS	94SO20RS	94SO25RS	94SO30RS	95SSORS
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	10 feet	15 feet	15 feet	20 feet	25 feet	30 feet	Surface
		SAMPLE DATE:	03/11/92	03/11/92	03/11/92	03/11/92	03/11/92	03/11/92	03/17/92
VOLATILES									
Acetone[3]	mg/kg		1.7	0.45	0.28	0.11	19[4]	5.8	0.15
EXTRACTABLES									
Bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	ND	ND	0.35	ND	ND
Di-n-butylphthalate	mg/kg		ND	ND	ND	ND	ND	ND	0.70
INORGANICS									
Arsenic	mg/kg		ND	12	ND	ND	ND	ND	ND
Barium	mg/kg		92	130	99	75	70	69	22
Lead	mg/kg		11	19	9.9	ND	5.8	6.3	11
MISCELLANEOUS									
pH	NA		7.9	7.9	7.9	8.3	8.4	8.5	7.9

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 7 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	95SO02	95SO02B	95SO05	95SO10	95SO15	95SO20	95SO25
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	2 feet	2 feet	5 Feet	10 feet	15 feet	20 feet	25 feet
		SAMPLE DATE:	03/05/92	03/05/92	03/05/92	03/05/92	03/05/92	03/05/92	03/05/92
VOLATILES									
Acetone[3]	mg/kg		ND	ND	0.30	34[4]	10	0.42	10
2-Butanone	mg/kg		ND	ND	ND	0.13	ND	ND	ND
Ethanol[3]	mg/kg		ND	ND	ND	45	3.4	ND	ND
INORGANICS									
Arsenic	mg/kg		ND	ND	ND	22	18	ND	ND
Barium	mg/kg		19	29	30	110	44	100	87
Cadmium	mg/kg		ND	ND	ND	ND	0.55	ND	ND
Lead	mg/kg		6.5	9.4	11	21	16	15	8.4
MISCELLANEOUS									
pH	NA		7.2	7.8	4.1	6.9	7.6	7.7	7.8

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 8 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	95SO30	96SSORS	96SO02	96SO05	96SO10	96SO15	96SO20
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	30 feet	Surface	2 feet	5 feet	10 feet	15 feet	20 feet
		SAMPLE DATE:	03/05/92	03/17/92	03/10/92	03/10/92	03/10/92	03/10/92	03/10/92
VOLATILES									
Acetone[3]	mg/kg		0.65	ND	3.9	0.74	30	1.2	ND
EXTRACTABLES									
Bis(2-ethylhexyl)phthalate	mg/kg		ND	0.45	ND	ND	0.86	ND	ND
Di-n-butylphthalate	mg/kg		ND	0.51	ND	ND	ND	ND	ND
INORGANICS									
Arsenic	mg/kg		ND	ND	ND	ND	11	ND	ND
Barium	mg/kg		49	27	22	51	69	1,600	ND
Lead	mg/kg		5.4	14	9.5	11	13	ND	13
MISCELLANEOUS									
pH	NA		8.0	7.4	8.3	6.9	7.5	8.3	8.0

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 9 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	96SO25 Soil 25 feet 03/10/92	96SO30 Soil 30 feet 03/10/92	97SSORS Soil Surface 03/17/92	97SO02 Soil 2 feet 03/07/92	97SO02B Soil 2 feet 03/07/92	97SO05 Soil 5 feet 03/07/92	97SO10 Soil 10 feet 03/07/92
VOLATILES									
Acetone[3]	mg/kg		ND	0.26	ND	0.99	0.79	0.10	0.76
INORGANICS									
Arsenic	mg/kg		22	ND	ND	ND	ND	ND	ND
Barium	mg/kg		110	170	24	27	25	41	270
Cadmium	mg/kg		ND	1.0	ND	ND	ND	ND	ND
Lead	mg/kg		18	10	6.9	7.2	8.1	11	11
MISCELLANEOUS									
pH	NA		7.8	7.7	7.6	8.3	8.2	5.3	8.0

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 10 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	97SO15	97SO20	97SO25	97S030	98SSORS	98SO02	98SO02B
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	15 feet	20 feet	25 feet	30 feet	Surface	2 feet	2 feet
		SAMPLE DATE:	03/07/92	03/07/92	03/07/92	03/07/92	03/17/92	03/05/92	03/05/92
VOLATILES									
Acetone[3]	mg/kg		ND	ND	0.45	0.34	ND	ND	ND
EXTRACTABLES									
bis(2-ethylhexyl)phthalate	mg/kg		0.91	ND	0.43	ND	ND	ND	ND
INORGANICS									
Barium	mg/kg		130	ND	52	29	23	ND	20
Lead	mg/kg		10	ND	8.0	ND	8.8	6.4	7.5
MISCELLANEOUS									
pH	NA		8.6	8.6	8.0	8.9	7.8	8.2	8.2

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 11 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	98SO05	98SO10	98SO15	98SO20	98SO25	98SO30	99SSORS
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	5 feet	10 feet	15 feet	20 feet	25 feet	30 feet	Surface
		SAMPLE DATE:	03/05/92	03/05/92	03/05/92	03/05/92	03/05/92	03/05/92	03/17/92
VOLATILES									
Acetone[3]	mg/kg		ND	2.8	0.13	0.57	0.19	0.32	ND
INORGANICS									
Barium	mg/kg		65	300	64	65	58	120	ND
Lead	mg/kg		7.0	7.1	ND	10	6.6	6.6	6.8
MISCELLANEOUS									
pH	NA		8.0	7.6	7.8	8.5	8.1	7.6	9.3

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 12 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	99SO2RS Soil 2 feet 03/11/92	99SO02BRS Soil 2 feet 03/11/92	99SO05RS Soil 5 feet 03/11/92	99SO10RS Soil 10 feet 03/11/92	99SO15RS Soil 15 feet 03/11/92	99SO20RS Soil 20 feet 03/11/92	99SO25RS Soil 25 feet 03/11/92
VOLATILES									
Acetone[3]	mg/kg		0.21	ND	ND	ND	0.15	ND	ND
INORGANICS									
Barium	mg/kg		ND	ND	44	ND	150	31	29
Lead	mg/kg		ND	ND	35	ND	23	8.6	6.3
MISCELLANEOUS									
pH	NA		5.6	5.7	6.5	6.6	6.9	7.3	7.5

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 13 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	99SO30RS	100SSORS	100SO02	100SO02B	100SO05	100SO10
		SAMPLE TYPE:	Soil	Soil	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	30 feet	Surface	2 feet	2 feet	5 feet	10 feet
		SAMPLE DATE:	03/11/92	03/17/92	03/07/92	03/07/92	03/07/92	03/07/92
VOLATILES								
Acetone[3]	mg/kg		ND	ND	0.21	ND	11	ND
EXTRACTABLES								
Bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	ND	ND	3.4	1.2
INORGANICS								
Barium	mg/kg		57	29	23	22	110	56
Lead	mg/kg		6.4	15	7.1	5.8	ND	7.6
MISCELLANEOUS								
pH	NA		7.7	7.9	8.0	7.8	8.3	8.9

TABLE 2-12
SOIL ANALYTICAL RESULTS
SWMUs 92-100 (Page 14 of 14)
LPSA EVAPORATION/NEUTRALIZATION PITS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	100SO15 Soil 15 feet 03/07/92	100SO20 Soil 20 feet 03/07/92	100SO25 Soil 25 feet 03/07/92	100SO30 Soil 30 feet 03/07/92
VOLATILES						
Acetone[3]	mg/kg		ND	ND	~1.9	510
INORGANICS						
Arsenic	mg/kg		ND	ND	ND	16
Barium	mg/kg		47	27	60	210
Lead	mg/kg		6.9	7.4	6.5	22
MISCELLANEOUS						
pH	NA		8.6	8.4	8.3	8.0

NOTES:
(1) Sample identification nomenclature is described in Section 3.1.1 of this report.
(2) Only samples with constituent concentrations above the detection limit are noted.
(3) This compound was introduced to the sample during collection.
(4) Probable laboratory contaminant.
(5) This compound was possibly introduced during sampling.
(6) Sample was reprepped outside of holding time to achieve this value.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.
NA = Not applicable.
NT = Not tested.

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 1 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121BGSO00 Soil Surface 02/11/92	121BG1SO02 Soil 2 feet 02/11/92	121BG1SO02B Soil 2 feet 02/11/92	121BGSO05 Soil 5 feet 02/11/92	121BGSO10 Soil 10 feet 02/11/92	121B1SO00 Soil Surface 02/11/92
VOLATILES								
Acetone[3]	mg/kg		ND	2.7[4]	1.6[4]	0.13	ND	ND
INORGANICS								
Barium	mg/kg		58	63	76	59	110	85
Sulfide	mg/kg		ND	12	ND	8.0	ND	24
PESTICIDES/PCBs								
Beta-BHC	mg/kg		ND	0.0059	ND	ND	ND	ND
4,4'-DDE	mg/kg		ND	0.022	ND	ND	ND	ND
4,4'-DDT	mg/kg		ND	0.056	ND	ND	ND	ND

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 2 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121B1SO02 Soil 2 feet 02/11/92	121B1SO05 Soil 5 feet 02/11/92	121B1SO10 Soil 10 feet 02/11/92	121B2SO00 Soil Surface 02/11/92	121B2SO02 Soil 2 feet 02/11/92	121B2SO05 Soil 5 feet 02/11/92
VOLATILES								
Acetone[3]	mg/kg		ND	2.2	ND	1.9[4]	24[4]	1.6
INORGANICS								
Barium	mg/kg		72	64	47	79	100	89
Lead	mg/kg		7.3	ND	ND	ND	ND	ND
EXTRACTABLES								
Bis(2-ethylhexyl)phthalate	mg/kg		2.7	ND	0.71	ND	ND	ND

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 3 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121B2SO10 Soil 10 feet 02/11/92	121B3SO00 Soil Surface 02/12/92	121B3SO02 Soil 2 feet 02/12/92	121B3SO05 Soil 5 feet 02/12/92	121B3SO05B Soil 5 feet 02/12/92	121B3SO10 Soil 10 feet 02/12/92
VOLATILES								
Acetone[3]	mg/kg		0.20[4]	ND	1.2[5]	4.4[6]	1.4	0.12
INORGANICS								
Barium	mg/kg		57	120	110	63	83	30
Lead	mg/kg		4.6	7.1	8.3	5.7	7.6	ND
Sulfide	mg/kg		8.0	ND	ND	ND	ND	ND
Total Cyanide	mg/kg		ND	ND	0.2	ND	ND	ND
EXTRACTABLES								
Bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	ND	1.0	ND	ND

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 4 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121B4SO00 Soil Surface 02/12/92	121B4SO02 Soil 2 feet 02/11/92	121B4SO05 Soil 5 feet 02/12/92	121B4SO10 Soil 10 feet 02/12/92	121B5SO00 Soil Surface 02/12/92	121B5SO02 Soil 2 feet 02/12/92
VOLATILES								
Acetone[3]	mg/kg		3.9[4]	2.7[4]	1.6[4]	2.7[4]	1.2[4]	6.8[4*]
INORGANICS								
Barium	mg/kg		130	68	69	170	80	110
Lead	mg/kg		5.1	ND	6.9	ND	7.0	7.4
PESTICIDES/PCBs								
4,4'-DDE	mg/kg		ND	0.062	ND	ND	ND	ND
4,4'-DDT	mg/kg		ND	0.066	ND	ND	ND	ND
EXTRACTABLES								
Bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	0.33	ND	ND	ND

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 5 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121B5SO05 Soil 5 feet 02/12/92	121B5SO10 Soil 10 feet 02/12/92	121B6SO00 Soil Surface 02/12/92	121B6SO02 Soil 2 feet 02/12/92	121B6SO02RS Soil 2 feet 03/08/92
VOLATILES							
Acetone[3]	mg/kg		0.67[4]	0.26[4]	1.7[4]	3.8[4]	0.12
INORGANICS							
Barium	mg/kg		52	140	68	ND	NT
Lead	mg/kg		ND	ND	6.7	ND	NT
Total Cyanide	mg/kg		ND	2.2	ND	ND	NT

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 6 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121B6SO05 Soil 5 feet 02/12/92	121B6SO05B Soil 5 feet 02/12/92	121B6SO10 Soil 10 feet 02/12/92	121B6SO10RS Soil 10 feet 02/12/92	121B7SO00 Soil Surface 02/12/92
VOLATILES							
Acetone[3]	mg/kg		0.17[5]	2.8[5]	2.5[5]	0.16	0.48[5]
INORGANICS							
Barium	mg/kg		110	140	70	NT	82
Lead	mg/kg		ND	ND	ND	NT	5.6

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 7 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121B7SO02 Soil 2 feet 02/12/92	121B7SO05 Soil 5 feet 02/12/92	121B7SO10 Soil 10 feet 02/12/92	121B8SO00 Soil Surface 02/12/92
VOLATILES						
Acetone[3]	mg/kg		0.26[4]	ND	ND	7.0[4]
EXTRACTABLES						
Di-n-butylphthalate	mg/kg		ND	ND	ND	0.36
INORGANICS						
Barium	mg/kg		41	240	67	70
Lead	mg/kg		ND	ND	ND	5.6

TABLE 2-13
SOIL ANALYTICAL RESULTS
SWMUs 121-123 (Page 8 of 8)
STALLION RANGE CENTER SUBGRADE TANKS
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	121B8SO02 Soil 2 feet 02/11/92	121B8SO05 Soil 5 feet 02/11/92	121B8SO10 Soil 10 feet 02/11/92	121B8SO10B Soil 10 feet 2/12/92
VOLATILES						
Acetone[3]	mg/kg		2.7[4]	4.6[4]	.10[5]	0.03[4]
EXTRACTABLES						
Di-n-butylphthalate	mg/kg		ND	0.44	0.37	0.57
INORGANICS						
Barium	mg/kg		60	31	57	92

NOTES:
(1) Sample identification nomenclature is described in Section 3.1.1 of this report.
(2) Only samples with constituent concentrations above the detection limit are noted.
(3) This compound was introduced to the sample during collection.
(4) Sample was reprepped outside of holding time to achieve this value. Sample flagged with (*) is also estimated.
(5) Sample was analyzed outside of holding times.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.
NT = Not tested

TABLE 2-16
SLUDGE AND SOIL ANALYTICAL RESULTS
SWMU 137 (Page 1 of 2)
PAINT SHOP SUMP
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	137SL1	137B1SO05	137B1SO10	137B2SO05
		SAMPLE TYPE:	Sludge	Soil	Soil	Soil
		SAMPLE DEPTH:	Surface	5 feet	10 feet	5 feet
		SAMPLE DATE:	04/02/92	04/03/92	04/03/92	04/06/92
EXTRACTABLES						
Di-n-butylphthalate	mg/kg		0.96	0.90	0.89	1.1
Butylbenzylphthalate	mg/kg		0.98	ND	ND	ND
Bis(2-ethylhexyl)phthalate	mg/kg		18	ND	ND	0.4
INORGANICS						
Barium	mg/kg		180	49	33	42
Lead	mg/kg		2000	12	8.9	9.2
Mercury	mg/kg		2.1	ND	ND	ND
TCLP INORGANICS						
Barium	mg/L		1.7	NT	NT	NT
Lead	mg/L		0.49	NT	NT	NT

TABLE 2-16
SLUDGE AND SOIL ANALYTICAL RESULTS
SWMU 137 (Page 2 of 2)
PAINT SHOP SUMP
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	137B2SO05B Soil 5 feet 04/06/92	137B2SO10 Soil 10 feet 04/06/92
EXTRACTABLES				
Di-n-butylphthalate	mg/kg		0.86	ND
INORGANICS				
Barium	mg/kg		57	62
Lead	mg/kg		10	12

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.
NT = Not tested

TABLE 2-8
SURFACE SOIL ANALYTICAL RESULTS
SWMU 61 (Page 1 of 1)
TULA PEAK UXO INCINERATOR
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: / SAMPLE TYPE: / SAMPLE DEPTH: / SAMPLE DATE:	61SO3 / Soil / Surface / 02/20/92
EXTRACTABLES			
Butylbenzylphthalate	mg/kg		0.44

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.

TABLE 2-17
SURFACE WATER ANALYTICAL RESULTS
SWMU 137 (Page 1 of 1)
PAINT SHOP SUMP
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX II AND III SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	137SW1 Water Surface 04/02/92
INORGANICS			
Barium	mg/L		0.21
Lead	mg/L		0.16

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.

TABLE 2-19
SOIL ANALYTICAL RESULTS
SWMU 141 (Page 1 of 3)
EQUIPMENT STORAGE AREA
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	141BG1SO02	141B1SO03	141B1SO03B	141B3SO03
		SAMPLE TYPE:	Soil	Soil	Soil	Soil
		SAMPLE DEPTH:	2 feet	3 feet	3 feet	3 feet
		SAMPLE DATE:	04/30/92	04/30/92	04/30/92	04/30/92
INORGANICS						
Arsenic-Furnace	mg/kg		0.54	1.1	0.81	0.65

TABLE 2-19
SOIL ANALYTICAL RESULTS
SWMU 141 (Page 2 of 3)
EQUIPMENT STORAGE AREA
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	141B4SO03 Soil 3 feet 04/30/92	141B7SO03 Soil 3 feet 05/01/92	141B8SO03 Soil 3 feet 05/01/92	141B9SO03 Soil 3 feet 05/01/92
INORGANICS						
Arsenic-Furnace	mg/kg		1.7	1.7	1.7	1.9
Barium	mg/kg		120	96	92	140
VOLATILES						
Acetone[3]	mg/kg		ND	0.72	0.19	0.42
EXTRACTABLES						
bis(2-ethylhexyl)phthalate	mg/kg		ND	ND	0.40	ND

TABLE 2-19
SOIL ANALYTICAL RESULTS
SWMU 141 (Page 3 of 3)
EQUIPMENT STORAGE AREA
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	141B12SO03	141B13SO04	141B14SO07
		SAMPLE TYPE:	Soil	Soil	Soil
		SAMPLE DEPTH:	3 feet	4 feet	7 feet
		SAMPLE DATE:	05/01/92	05/01/92	05/01/92
INORGANICS					
Arsenic-Furnace	mg/kg		1.8	0.75	0.96
VOLATILES					
Acetone[3]	mg/kg		0.19	0.17	ND

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
[3] This compound was introduced to the sample during collection.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.

TABLE 2-37
SOIL ANALYTICAL RESULTS
SWMU 153 (Page 1 of 3)
VANDAL BURIAL SITE
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	153B1SO05 Soil 5 feet 02/20/92	153B1SO10 Soil 10 feet 02/20/92	153B1SO15 Soil 15 feet 02/20/92	153B1SO20 Soil 20 feet 02/20/92
EXTRACTABLES						
Bis(2-ethylhexyl)phthalate	mg/kg		0.37	ND	ND	0.35
INORGANICS						
Barium	mg/kg		44	50	42	41
Lead	mg/kg		11	11	12	10

TABLE 2-32
GROUNDWATER ANALYTICAL RESULTS
SWMU 149 (Page 1 of 1)
MAINTENANCE BUILDING SEPTIC SYSTEM
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	HMW-14GW	HMW-17GW
		UPGRADIENT/DOWNGRADIENT:	UG	NA[3]
		SAMPLE TYPE:	Water	Water
		SAMPLE DATE:	05/31/91	05/31/91
INORGANICS				
Selenium-Furnace	mg/L		0.33	0.020

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
[3] Well is screened in an isolated unit so groundwater gradient is unknown.

TABLE 2-31
SOIL ANALYTICAL RESULTS
SWMU 149 (Page 1 of 2)
MAINTENANCE BUILDING SEPTIC SYSTEM
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	149BGSO02 Soil 2 feet 04/6/92	HMW17SO05 Soil 5 feet 05/12/92	HMW17SO15 Soil 15 feet 05/12/92	HMW17SO20 Soil 20 feet 05/12/92
INORGANICS						
Arsenic-Furnace	mg/kg		0.60	0.78	1.4	2.7
Barium	mg/kg		ND	ND	77	400
Lead	mg/kg		ND	ND	ND	7.1
VOLATILES						
Acetone[3]	mg/kg		ND	0.37	ND	ND

TABLE 2-31
SOIL ANALYTICAL RESULTS
SWMU 149 (Page 2 of 2)
MAINTENANCE BUILDING SEPTIC SYSTEM
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	HMW17SO20B Soil 20 feet 05/12/92	HMW17SO25 Soil 25 feet 05/12/92	HMW17SO30 Soil 30 feet 05/12/92
INORGANICS					
Arsenic-Furnace	mg/kg		2.0	0.92	2.6
Barium	mg/kg		120	66	ND
Lead	mg/kg		5.6	8.2	9.9

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
[3] This compound was introduced to the sample during collection.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.

TABLE 2-34
SOIL ANALYTICAL RESULTS
SWMU 151 (Page 1 of 2)
TRAILER AREA SEPTIC SYSTEM
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	151BGSO02 Soil 2 feet 04/06/92	151B1SO05 Soil 5 feet 05/13/92	151B1SO10 Soil 10 feet 05/13/92
INORGANICS					
Arsenic - Furnace	mg/kg		0.62	0.94	ND
VOLATILES					
Acetone[3]	mg/kg		ND	ND	1.2

TABLE 2-34
SOIL ANALYTICAL RESULTS
SWMU 151 (Page 2 of 2)
TRAILER AREA SEPTIC SYSTEM
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	151B1SO15B Soil 15 feet 05/13/92	151B1SO20 Soil 20 feet 05/13/92	151B1SO25 Soil 25 feet 05/13/92	151B1SO30 Soil 30 feet 05/13/92
INORGANICS						
Arsenic - Furnace	mg/kg		1.2	2.0	3.2	5.4
Barium	mg/kg		97	93	34	93
Lead	mg/kg		ND	7.0	6.4	5.1

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
[3] This compound was introduced to the sample during collection.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.

TABLE 2-35
SOIL ANALYTICAL RESULTS
SWMU 152 (Page 1 of 1)
PROPERTY AND SUPPLY BUILDING SEPTIC SYSTEM
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	152B1SO10 Soil 10 feet 05/13/92	152B1SO15 Soil 15 feet 05/13/92	152B1SO20 Soil 20 feet 05/13/92	152B1SO25 Soil 25 feet 05/13/92	152B1SO30 Soil 30 feet 05/13/92
INORGANICS							
Arsenic - Furnace	mg/kg		ND	0.80	0.77	7.4	4.1
Barium	mg/kg		ND	99	60	89	76
Cadmium	mg/kg		ND	ND	ND	ND	0.47
Lead	mg/kg		ND	ND	ND	8.6	7.6
VOLATILES							
Acetone[3]	mg/kg		3.9[4]	ND	ND	ND	ND

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
[3] This compound was introduced to the sample during collection.
[4] Sample was reprepped outside of holding time to achieve this value.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.

TABLE 2-36
GROUNDWATER ANALYTICAL RESULTS
SWMU 152 (Page 1 of 1)
PROPERTY AND SUPPLY BUILDING SEPTIC SYSTEM
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	HMW12GW	HMW12GWB
		UPGRADIENT/DOWNGRADIENT:	DG	DG
		SAMPLE TYPE:	Water	Water
		SAMPLE DATE:	6/01/92	6/01/92
INORGANICS				
Selenium - Furnace	mg/L		0.30	0.33

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.

TABLE 2-37
SOIL ANALYTICAL RESULTS
SWMU 153 (Page 2 of 3)
VANDAL BURIAL SITE
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]: SAMPLE TYPE: SAMPLE DEPTH: SAMPLE DATE:	153B1SO20B Soil 20 feet 02/20/92	153B2SO05 Soil 5 feet 02/20/92	153B2SO10 Soil 10 feet 02/20/92	153B2SO15 Soil 15 feet 02/20/92
VOLATILES						
Acetone[3]	mg/kg		0.15	ND	0.23	ND
INORGANICS						
Barium	mg/kg		29	33	27	29
Lead	mg/kg		10	13	6.9	8.0

TABLE 2-37
SOIL ANALYTICAL RESULTS
SWMU 153 (Page 3 of 3)
VANDAL BURIAL SITE
RCRA FACILITY INVESTIGATION (RFI)
APPENDIX IV SITES
WHITE SANDS MISSILE RANGE, NEW MEXICO

CONSTITUENT[2]	UNITS OF MEASURE	SAMPLE ID[1]:	153B2SO20
		SAMPLE TYPE:	Soil
		SAMPLE DEPTH:	20 feet
		SAMPLE DATE:	02/20/92
INORGANICS			
Barium	mg/kg		32
Lead	mg/kg		7.7

NOTES:
[1] Sample identification nomenclature is described in Section 3.1.1 of this report.
[2] Only samples with constituent concentrations above the detection limit are noted.
[3] This compound was introduced to the sample during collection.
ND = Non-detect. Detection limit values are noted in laboratory reports, Appendix G.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

CERTIFIED MAIL: RETURN RECEIPT REQUESTED

Public Affairs Office
U. S. Army White Sands Missile Range
White Sands Missile Range, N. M. 88002-5048

RE: U.S. Army White Sands Missile Range
White Sands Missile Range, New Mexico
EPA I.D. No. NM2750211235

Dear Sir/Madam:

Enclosed is a copy of the Statement of Basis/Final Decision and Response to Comments Summary for the U. S. Army White Sands Missile Range. Please make the enclosed document available to the public for thirty days from receipt of this notice.

Thank you for your assistance in this matter. If anyone has any questions regarding the notice, please have them call me at 214/665-8302.

Sincerely,

James A. Harris, Jr.

James A. Harris, Jr.
RCRA Facility Manager/Geologist
New México and Federal
Facilities Section (6PD-N)

Enclosures

Per James Harris, Region VI EPA 7/7/97
Class III Mod was finalized 12/31/95 NMED
gained authority 1/1/96

Recycled/Recyclable • Printed with Vegetable Oil Based Inks on 100% Recycled Paper (40% Postconsumer)

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DEPARTMENT OF THE ARMY

U.S. ARMY WHITE SANDS MISSILE RANGE
WHITE SANDS MISSILE RANGE, NEW MEXICO 88002-

12 OCT 1993

REPLY TO ATTENTION OF

Office of the Commanding General

Mr. William K. Honker, Chief
RCRA Permits Branch (6H-P)
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Dear Mr. Honker:

In response to your letter, dated September 3, 1993, and guidance from follow-on discussions between our staffs, White Sands Missile Range (WSMR) formally requests a Class III Permit Modification for all Solid Waste Management Unit (SWMU) sites, which do not require further investigative action. The 25 SWMU sites for which this request is being made are listed below.

a. Removal of the following 24 SWMU sites listed in the current WSMR Permit from further investigative actions:

SWMU Name	SWMU No.	Appendices
Waste Accumulation Area	18	I
HELSTF Flurspar Tanks	33 & 34	II
Tula Peak UXO Incinerator	61	II
Former Sewage Treatment Plant (STP)	62	I
STP Sludge Beds	79	I
Hazardous Waste Storage Evap. Tank	90	III
Liquid Propellant Storage Area Pits	92A/B-100	III
Stallion Center Subgrade Tanks	121 - 123	III
Paint Shop Sump	137	III
HELSTF Equipment Storage Area	141	IV
Maint. Bldg. Septic System (HELSTF)	149	IV
Vandal Burial Site	153	IV

b. Addition of the Temperature Test Facility (TTF) Methlyene Chloride Spill site into the WSMR Part B Permit, as SWMU site #101, Appendix III in Module VIII, Task IX. WSMR previously notified EPA of this potential SWMU site via letter, dated June 2, 1993.

A significant amount of data has been collected and evaluated by WSMR regarding the TTF site. The results indicate that soil contamination is migrating downward and will likely impact groundwater in the near future. If the TTF site is approved for addition to our Permit, WSMR further requests that it be considered for expedited investigation and remediation activities to avoid probable groundwater contamination at this site.

We believe this Permit Modification is necessary to accurately present the current status of the overall SWMU cleanup process at WSMR. Your staff's assistance regarding our request for a Class III Permit Modification is appreciated. Please contact Mr. Hector Magallanes, Environmental Services Division, at (505) 678-2073, should you or your staff have any questions regarding this request.

Sincerely,

Richard W. Wharton
Brigadier General, U.S. Army
Commanding General

STEWS-ES-E (200-1a) 05 OCT 1993

MEMORANDUM FOR RECORD

SUBJECT: Request for a Class III Permit Modification to the WSMR Part B Permit Regarding Investigation of WSMR Solid Waste Management Unit (SWMU) Sites

1. Purpose: To obtain the Commanding General's approval of the letter to the Environmental Protection Agency (EPA) concerning the subject request (Tab A).

2. Background and Discussion:

a. On 3 Sep 93, WSMR received a letter from the EPA which stated SWMU #92B will require no further investigation activities along with 23 others already identified by EPA (Tab B). The EPA letter also emphasized that WSMR should submit a formal request for a Class III Modification to our Permit prior to taking action on these sites.

b. In the subject modification request, WSMR meets EPA'S requirements but also asks for the inclusion of the Temperature Test Facility (TTF) Methylene Chloride Spill Site, as SWMU #101, into the Permit. The addition of the TTF site as a SWMU will qualify WSMR for Defense Environmental Restoration Account (DERA) funds to finalize the investigation and implement remediation of the TTF site.

3. Point of Contact: The POC for this action is Mr. Hector Magallanes, ES-E, 678-2073.

4. Recommendation. That the Commanding General sign the letter at Tab A.

OFFICIAL SIGNED BY

2 Encls
as

THOMAS A. LADD
Director, Environment and Safety

ES-E Record

?

CONCURRENCES		
ORG.	SIGNATURE	DATE
ESE	[illegible]	9/27/93

Appendix B-3
SWMUs 121 – 123 (WSMR-67):
1999 NMED Annual Unit Audit Letter

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo Street
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544

GARY E. JOHNSON
GOVERNOR

PETER MAGGIORE
SECRETARY

PAUL R. RITZMA
DEPUTY SECRETARY

WSMR Environment & Safety Tech Lib
2 8800 00019394 7

July 19, 1999

Thomas A. Ladd, Director
Environmental and Safety
Department of the Army
U.S. Army White Sands Missile Range
White Sands Missile Range, New Mexico 88002

RE: **ANNUAL UNIT AUDIT REVISION REQUEST**

Dear Mr. Ladd:

White Sands Missile Range (WSMR) requested in its *REQUEST FOR HEARING* correspondence dated June 3, 1999 that the Hazardous and Radioactive Materials Bureau (HRMB) amend WSMR's 1998 Annual Unit Audit (AUA) by removing several corrective action units that WSMR believes were erroneously included. A meeting of both organizations was held on June 30, 1999 to discuss the request. This correspondence provides HRMB's formal response to WSMR's request.

The New Mexico's Hazardous Waste Fee Regulations (20 NMAC 4.2.201.2) state that "... the Annual Unit Audit (AUA) shall be used to determine if the facility's permit accurately and appropriately list the facility's operating, post-closure care and corrective action units." One of the ways we then use the AUA is to determine whether or not units are erroneously included on the permit. HRMB believes that a portion of units for which WSMR is requesting removal fall into this category. I must emphasize that units that should not exist on a permit must not be confused with units that must be formally removed from a permit. These latter units must be assessed an Annual Hazardous Waste Management Business Fee until they are formally removed from a permit, through a Class III permit modification, e.g., in response to a "No Further Action" (NFA) determination by the agency. A large number of WSMR's requested removals fall into this category. Below are specific responses to each category mentioned in WSMR's June 1999 request.

C7
NR-ES-C

1. <u>The non-existence of a unit (SWMU 117).</u>

HRMB believes this unit may fall into the category of units requiring formal removal

RECD
7/26/99
NR-E

from the permit, and thus must remain on the AUA. Solid Waste Management Units (SWMUs) that cannot be located, do not exist, or are duplicates of other SWMUs, are potential grist for NFA proposals. SWMU 117 (Waste Underground Injection Pipe) is referenced in the August 1988 WSMR RCRA Facility Assessment (RFA) as being of "major concern". This language originates in a WSMR Initial Installation Assessment dated January 1988. The original rationale for this site becoming a SWMU will have to be addressed in the NFA proposal. Because we must evaluate a NFA petition for this SWMU, we must include it in the AUA.

2. Units operated by another facility (SWMU 132).

WSMR's SWMU 132, the sewage lagoon at Oro Grande Range Camp, also exists on Fort Bliss's RCRA Permit, and is in fact the responsibility of Fort Bliss. SWMU 132 will be removed from WSMR's AUA and an administrative modification to WSMR's RCRA permit will reflect that removal.

3. Units that may have dual regulation (SWMUs 79, 85 and 27-30).

HRMB understands WSMR's concern about dual regulation of a site. However, the removal from WSMR's AUA of a regulated unit at such a site must be performed on a site specific basis and through the formal NFA/permit modification procedure. Remediation under another authority which adequately addresses RCRA corrective action is an appropriate basis for a NFA proposal. These units therefore cannot be removed from WSMR's AUA until the formal NFA procedure is completed.

4. Units that can be combined due to proximity and similar corrective action concerns (SWMUs 8-9, 10-11, 12-13,19-20 and 66-78).

HRMB believes that units that are proximal, have the same contaminants of concern, and are likely to be investigated and remediated through similar approaches may be combined into a single unit both within the AUA and the permit. HRMB will combine the units as requested except for the influent sewer line. This unit is not sufficiently proximal nor is it investigated in a similar manner to the units at the Main Post Sewage Treatment Plant. The influent sewer line will therefore remain separate on the AUA.

5. Units that EPA Region 6 processed for NFA (SWMUs 18, 62, 79, 33, 34, 61, 92a, 93, 95-100, 121-123, 137, 141, 149, 151, 152 and 153).

HRMB concurs with EPA's NFA determination for the following SWMUs; 18, 62, 79, 137 and 141. However, HRMB requires resolution of whether or not SWMU 18 should be listed as a Satellite Accumulation Point (SAP) or as a permittable hazardous waste

storage unit. HRMB requests information from WSMR regarding the following SWMUs for following reasons:

SWMUs 33 and 34	EPA's Statement of Basis (SOB) is not clear on the NFA justification.
SWMU 61	EPA's SOB suggests that WSMR will apply for a post-closure care permit for this site. HRMB is unaware of such a proposal.
SWMUs 92a, 93, 95-100	WSMR must explain whether perchlorate might be a contaminant of concern at these sites and whether it was included in the investigation.
SWMUs 121-123	EPA required WSMR to coordinate with the New Mexico Environment Department (NMED) on the removal of some tanks as a condition of NFA concurrence. HRMB must ensure that coordination occurred prior to removing the unit from the AUA.
SWMU 149, 151, 152	HRMB understands that considerable groundwater investigation has occurred at HELSTF since EPA's evaluation of these SWMUs. HRMB must ensure that the NFA rationale is still valid.
SWMU 153	WSMR's commitment to clear this site of debris has not been substantiated. HRMB questions whether perchlorate is a contaminant of concern at this site. It is not clear whether the finalization of the Military Munitions Rule might not have changed the regulatory status of the wastes at this site.

HRMB will therefore retain these units on the AUA.

HRMB anticipates that this response and the associated proposed revisions will alleviate WSMR's concerns about its AUA, and that WSMR will formally withdraw its appeal. Should WSMR indicate that its concerns have been satisfied and withdraw its appeal, HRMB will issue an amended AUA in accordance with this letter, followed up with an administrative modification to WSMR's permit and a new list of SWMUs that reflects the amended AUA. Should WSMR indicate that its concerns have not been satisfied and that it wishes to pursue its appeal, HRMB will postpone amending the AUA pending the results of the hearing on the appeal.

If we can be of further assistance, please do not hesitate to call either Phillip Solano, Steve Pullen or myself at (505) 827-1561.

Sincerely,

James P. Bearzi
Chief
Hazardous and Radioactive Materials Bureau

cc: Stuart Dinwiddie, HRMB
Steve Pullen, HRMB
Phillip Solano, HRMB
Marcy Leavitt, GWQB
John McKay, OGC
David Neleigh, EPA

Appendix B-4
SWMUs 121 – 123 (WSMR-67):
2000 EPA Letter Validating the Statement of Basis

WSMR Environment & Safety Tech Lib
2 8800 00019365 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

April 28, 2000

Mr. Thomas A. Ladd, Director
Environment and Safety Directorate
Department of the Army
U. S. Army White Sands Missile Range
White Sands Missile Range, New Mexico 88002-5048

Dear Mr. Ladd,

On March 27, 2000 the Environmental Protection Agency (EPA) received a request for confirmation that the Class III Permit Modification issued by EPA to White Sands Missile Range in December 1995 removed twenty-four (24) solid waste management units (SWMUs) from the Hazardous and Solid Waste Amendments (HSWA) portion of WSMRs Resource Conservation and Recovery Act (RCRA) Permit.

The notice of decision removing the twenty-four (24) SWMUs from WSMRs HSWA permit was issued on November 29, 1995 and EPA was authorized to implement HSWA at that time. The New Mexico Environment Department (NMED) was authorized to implement HSWA on January 1, 1996. Referencing the Statement of Basis - Final Decision "The final decision will become effective thirty (30) days after service of notice of the decision unless a later date is specified or review is requested under regulation 40 CFR 124.19. If no comments are received to request a change in the final determination, the decision to approve the application will become effective immediately upon issuance." The decision became effective December 29, 1995.

Consequently, the Statement of Basis - Final Decision issued by EPA removed all twenty-four (24) SWMUs from WSMRs HSWA Permit. This action does not preclude NMED from initiating Class III Permit Modification procedures to reinstate the twenty-four (24) SWMUs back into WSMRs HSWA permit should cause exist to do so.

Rec'd
11 MAY 2000
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If you have any questions or require further assistance regarding EPAs 1995 Class III Permit Modification removing twenty-four (24) SWMUs from WSMRs HSWA permit please contact James Harris of my staff at (214) 665-8302.

Sincerely,

David Neleigh

David Neleigh, Chief
New Mexico and
Federal Facilities Section
(6PD-N)

cc: Jim Bearzi, NMED, HRMB
Phillip Solano, NMED, HRMB

Appendix C-1
SWMU 156 (WSMR-57):
Phase II RFI Analytical Data

CONTINUATION OF DATA FOR SAMPLE NUMBER 676

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2-CHLOROETHYLVINYL ETHER	<	10	ug/L	10		
BROMOFORM	<	5	ug/L	5		
TETRACHLOROETHENE	<	5	ug/L	5		
1,1,2,2-TETRACHLOROETHANE	<	5	ug/L	5		
TOLUENE	<	5	ug/L	5		
CHLOROBENZENE	<	5	ug/L	5		
ETHYL BENZENE	<	5	ug/L	5		
TOTAL XYLENES	<	5	ug/L	5		
CIS 1,2-DICHLOROETHENE	<	5	ug/L	5		
1,3-DICHLOROBENZENE	<	5	ug/L	5		
1,4-DICHLOROBENZENE	<	5	ug/L	5		
1,2-DICHLOROBENZENE	<	5	ug/L	5		
ACETONE	<	20	ug/L	20		
CARBON DISULFIDE	<	5	ug/L	5		
2-BUTANONE	<	20	ug/L	20		
VINYL ACETATE	<	20	ug/L	20		
4-METHYL-2-PENTANONE	<	20	ug/L	20		
2-HEXANONE	<	20	ug/L	20		
STYRENE	<	5	ug/L	5		
SURROGATE 12-DICHLOROETHANE-D4		97.2	% Recovery			
SURROGATE TOLUENE-D8		65.6	% Recovery			
SURROGATE BROMOFLUOROBENZENE		76.4	% Recovery			
ACROLEIN	<	5	ug/L	5	01/13/94	
ACRYLONITRILE	<	10	ug/L	10	01/13/94	
DIBROMOMETHANE	<	5	ug/L	5	01/13/94	
1,4-DICHLORO-2-BUTENE	<	10	ug/L	10	01/13/94	
ETHYL METHACRYLATE	<	5	ug/L	5	01/13/94	
1,2,3-TRICHLOROPROPANE	<	5	ug/L	5	01/13/94	
IODOMETHANE	<	10	ug/L	10	01/13/94	

SAMPLE ID- 0000TB09(WATER)
TIME RECEIVED- 0930
DATE SAMPLED- 01/08/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 677
TIME SAMPLED- 1017
RECEIVED BY- DH
SAMPLE MATRIX- GROUNDWATER
DATE RECEIVED- 01/11/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS					01/13/94	8260
CHLOROMETHANE	<	10	ug/L	10		
BROMOMETHANE	<	10	ug/L	10		
VINYL CHLORIDE	<	10	ug/L	10		

CONTINUATION OF DATA FOR SAMPLE NUMBER 677

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLOROETHANE	<	10	ug/L	10		
METHYLENE CHLORIDE	<	5	ug/L	5		
TRICHLOROFLUOROMETHANE	<	5	ug/L	5		
1,1-DICHLOROETHENE	<	5	ug/L	5		
1,1-DICHLOROETHANE	<	5	ug/L	5		
TRANS-1,2-DICHLOROETHENE	<	5	ug/L	5		
CHLOROFORM	<	5	ug/L	5		
1,2-DICHLOROETHANE	<	5	ug/L	5		
1,1,1-TRICHLOROETHANE	<	5	ug/L	5		
CARBON TETRACHLORIDE	<	5	ug/L	5		
BROMODICHLOROMETHANE	<	5	ug/L	5		
1,2-DICHLOROPROPANE	<	5	ug/L	5		
CIS-1,3-DICHLOROPROPENE	<	5	ug/L	5		
TRICHLOROETHENE	<	5	ug/L	5		
DIBROMOCHLOROMETHANE	<	5	ug/L	5		
1,1,2-TRICHLOROETHANE	<	5	ug/L	5		
BENZENE	<	5	ug/L	5		
TRANS-1,3-DICHLOROPROPENE	<	5	ug/L	5		
2-CHLOROETHYLVINYL ETHER	<	10	ug/L	10		
BROMOFORM	<	5	ug/L	5		
TETRACHLOROETHENE	<	5	ug/L	5		
1,1,2,2-TETRACHLOROETHANE	<	5	ug/L	5		
TOLUENE	<	5	ug/L	5		
CHLOROBENZENE	<	5	ug/L	5		
ETHYL BENZENE	<	5	ug/L	5		
TOTAL XYLENES	<	5	ug/L	5		
CIS 1,2-DICHLOROETHENE	<	5	ug/L	5		
1,3-DICHLOROBENZENE	<	5	ug/L	5		
1,4-DICHLOROBENZENE	<	5	ug/L	5		
1,2-DICHLOROBENZENE	<	5	ug/L	5		
ACETONE	<	20	ug/L	20		
CARBON DISULFIDE	<	5	ug/L	5		
2-BUTANONE	<	20	ug/L	20		
VINYL ACETATE	<	20	ug/L	20		
4-METHYL-2-PENTANONE	<	20	ug/L	20		
2-HEXANONE	<	20	ug/L	20		
STYRENE	<	5	ug/L	5		
SURROGATE 12-DICHLOROETHANE-D4		119	% Recovery			
SURROGATE TOLUENE-D8		89.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE		96.6	% Recovery			
ACROLEIN	<	5	ug/L	5	01/13/94	
ACRYLONITRILE	<	10	ug/L	10	01/13/94	
DIBROMOMETHANE	<	5	ug/L	5	01/13/94	
1,4-DICHLORO-2-BUTENE	<	10	ug/L	10	01/13/94	

CONTINUATION OF DATA FOR SAMPLE NUMBER 677

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ETHYL METHACRYLATE	<	5	ug/L	5	01/13/94	
1,2,3-TRICHLOROPROPANE	<	5	ug/L	5	01/13/94	
IODOMETHANE	<	10	ug/L	10	01/13/94	

SAMPLE ID- 0156HA02(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 679
TIME SAMPLED- 1014
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	6.13	ug/Kg	5.11		
TRICHLOROFLUOROMETHANE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHANE	<5.11	ug/Kg	5.11		
TRANS-1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
CHLOROFORM	<5.11	ug/Kg	5.11		
1,2-DICHLOROETHANE	<5.11	ug/Kg	5.11		
1,1,1-TRICHLOROETHANE	<5.11	ug/Kg	5.11		
CARBON TETRACHLORIDE	<5.11	ug/Kg	5.11		
BROMODICHLOROMETHANE	<5.11	ug/Kg	5.11		
1,2-DICHLOROPROPANE	<5.11	ug/Kg	5.11		
CIS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		
TRICHLOROETHENE	<5.11	ug/Kg	5.11		
DIBROMOCHLOROMETHANE	<5.11	ug/Kg	5.11		
1,1,2-TRICHLOROETHANE	<5.11	ug/Kg	5.11		
BENZENE	<5.11	ug/Kg	5.11		
TRANS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.11	ug/Kg	5.11		
TETRACHLOROETHENE	<5.11	ug/Kg	5.11		
1,1,2,2-TETRACHLOROETHANE	<5.11	ug/Kg	5.11		
TOLUENE	<5.11	ug/Kg	5.11		
CHLOROBENZENE	<5.11	ug/Kg	5.11		
ETHYL BENZENE	<5.11	ug/Kg	5.11		
TOTAL XYLENES	<5.11	ug/Kg	5.11		

CONTINUATION OF DATA FOR SAMPLE NUMBER 679

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CIS 1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,3-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,4-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,2-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
ACETONE	54.1	ug/Kg	20.4		
CARBON DISULFIDE	<5.11	ug/Kg	5.11		
2-BUTANONE	<20.4	ug/Kg	20.4		
VINYL ACETATE	<20.4	ug/Kg	20.4		
4-METHYL-2-PENTANONE	<20.4	ug/Kg	20.4		
2-HEXANONE	<20.4	ug/Kg	20.4		
STYRENE	<5.11	ug/Kg	5.11		
SURROGATE 12-DICHLOROETHANE-D4	104	% Recovery			
SURROGATE TOLUENE-D8	106	% Recovery			
SURROGATE BROMOFLUOROBENZENE	102	% Recovery			
ACROLEIN	<5.11	ug/Kg	5.11	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.11	ug/Kg	5.11	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.11	ug/Kg	5.11	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.11	ug/Kg	5.11	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA03(002.0)
SAMPLE NUMBER- 680
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1028
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.8	ug/Kg	10.8		
BROMOMETHANE	<10.8	ug/Kg	10.8		
VINYL CHLORIDE	<10.8	ug/Kg	10.8		
CHLOROETHANE	<10.8	ug/Kg	10.8		
METHYLENE CHLORIDE	8.20	ug/Kg	5.39		
TRICHLOROFLUOROMETHANE	<5.39	ug/Kg	5.39		
1,1-DICHLOROETHENE	<5.39	ug/Kg	5.39		
1,1-DICHLOROETHANE	<5.39	ug/Kg	5.39		
TRANS-1,2-DICHLOROETHENE	<5.39	ug/Kg	5.39		
CHLOROFORM	<5.39	ug/Kg	5.39		
1,2-DICHLOROETHANE	<5.39	ug/Kg	5.39		

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
1,1,1-TRICHLOROETHANE	<5.39	ug/Kg	5.39		
CARBON TETRACHLORIDE	<5.39	ug/Kg	5.39		
BROMODICHLOROMETHANE	<5.39	ug/Kg	5.39		
1,2-DICHLOROPROPANE	<5.39	ug/Kg	5.39		
CIS-1,3-DICHLOROPROPENE	<5.39	ug/Kg	5.39		
TRICHLOROETHENE	<5.39	ug/Kg	5.39		
DIBROMOCHLOROMETHANE	<5.39	ug/Kg	5.39		
1,1,2-TRICHLOROETHANE	<5.39	ug/Kg	5.39		
BENZENE	<5.39	ug/Kg	5.39		
TRANS-1,3-DICHLOROPROPENE	<5.39	ug/Kg	5.39		
2-CHLOROETHYLVINYL ETHER	<10.8	ug/Kg	10.8		
BROMOFORM	<5.39	ug/Kg	5.39		
TETRACHLOROETHENE	<5.39	ug/Kg	5.39		
1,1,2,2-TETRACHLOROETHANE	<5.39	ug/Kg	5.39		
TOLUENE	<5.39	ug/Kg	5.39		
CHLOROBENZENE	<5.39	ug/Kg	5.39		
ETHYL BENZENE	<5.39	ug/Kg	5.39		
TOTAL XYLENES	<5.39	ug/Kg	5.39		
CIS 1,2-DICHLOROETHENE	<5.39	ug/Kg	5.39		
1,3-DICHLOROBENZENE	<5.39	ug/Kg	5.39		
1,4-DICHLOROBENZENE	<5.39	ug/Kg	5.39		
1,2-DICHLOROBENZENE	<5.39	ug/Kg	5.39		
ACETONE	<21.6	ug/Kg	21.6		
CARBON DISULFIDE	<5.39	ug/Kg	5.39		
2-BUTANONE	<21.6	ug/Kg	21.6		
VINYL ACETATE	<21.6	ug/Kg	21.6		
4-METHYL-2-PENTANONE	<21.6	ug/Kg	21.6		
2-HEXANONE	<21.6	ug/Kg	21.6		
STYRENE	<5.39	ug/Kg	5.39		
SURROGATE 12-DICHLOROETHANE-D4	108	% Recovery			
SURROGATE TOLUENE-D8	84.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	80.0	% Recovery			
ACROLEIN	<5.39	ug/Kg	5.39	01/18/94	
ACRYLONITRILE	<10.8	ug/Kg	10.8	01/18/94	
DIBROMOMETHANE	<5.39	ug/Kg	5.39	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.8	ug/Kg	10.8	01/18/94	
ETHYL METHACRYLATE	<5.39	ug/Kg	5.39	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.39	ug/Kg	5.39	01/18/94	
IODOMETHANE	<10.8	ug/Kg	10.8	01/18/94	

SAMPLE ID- 0156HA04(002.0)
SAMPLE NUMBER- 681
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1025
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.1	ug/Kg	10.1		
BROMOMETHANE	<10.1	ug/Kg	10.1		
VINYL CHLORIDE	<10.1	ug/Kg	10.1		
CHLOROETHANE	<10.1	ug/Kg	10.1		
METHYLENE CHLORIDE	6.08	ug/Kg	5.07		
TRICHLOROFLUOROMETHANE	<5.07	ug/Kg	5.07		
1,1-DICHLOROETHENE	15.7	ug/Kg	5.07		
1,1-DICHLOROETHANE	<5.07	ug/Kg	5.07		
TRANS-1,2-DICHLOROETHENE	<5.07	ug/Kg	5.07		
CHLOROFORM	<5.07	ug/Kg	5.07		
1,2-DICHLOROETHANE	<5.07	ug/Kg	5.07		
1,1,1-TRICHLOROETHANE	310.	ug/Kg	5.07		
CARBON TETRACHLORIDE	52.5	ug/Kg	5.07		
BROMODICHLOROMETHANE	<5.07	ug/Kg	5.07		
1,2-DICHLOROPROPANE	<5.07	ug/Kg	5.07		
CIS-1,3-DICHLOROPROPENE	<5.07	ug/Kg	5.07		
TRICHLOROETHENE	<5.07	ug/Kg	5.07		
DIBROMOCHLOROMETHANE	<5.07	ug/Kg	5.07		
1,1,2-TRICHLOROETHANE	<5.07	ug/Kg	5.07		
BENZENE	<5.07	ug/Kg	5.07		
TRANS-1,3-DICHLOROPROPENE	<5.07	ug/Kg	5.07		
2-CHLOROETHYLVINYL ETHER	<10.1	ug/Kg	10.1		
BROMOFORM	<5.07	ug/Kg	5.07		
TETRACHLOROETHENE	<5.07	ug/Kg	5.07		
1,1,2,2-TETRACHLOROETHANE	<5.07	ug/Kg	5.07		
TOLUENE	<5.07	ug/Kg	5.07		
CHLOROBENZENE	<5.07	ug/Kg	5.07		
ETHYL BENZENE	<5.07	ug/Kg	5.07		
TOTAL XYLENES	<5.07	ug/Kg	5.07		
CIS 1,2-DICHLOROETHENE	<5.07	ug/Kg	5.07		
1,3-DICHLOROBENZENE	<5.07	ug/Kg	5.07		
1,4-DICHLOROBENZENE	<5.07	ug/Kg	5.07		
1,2-DICHLOROBENZENE	<5.07	ug/Kg	5.07		
ACETONE	<20.3	ug/Kg	20.3		
CARBON DISULFIDE	<5.07	ug/Kg	5.07		
2-BUTANONE	<20.3	ug/Kg	20.3		
VINYL ACETATE	<20.3	ug/Kg	20.3		
4-METHYL-2-PENTANONE	<20.3	ug/Kg	20.3		
2-HEXANONE	<20.3	ug/Kg	20.3		

CONTINUATION OF DATA FOR SAMPLE NUMBER 681

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STYRENE	<5.07	ug/Kg	5.07		
SURROGATE 12-DICHLOROETHANE-D4	118	% Recovery			
SURROGATE TOLUENE-D8	90.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	86.0	% Recovery			
ACROLEIN	<5.07	ug/Kg	5.07	01/18/94	
ACRYLONITRILE	<10.1	ug/Kg	10.1	01/18/94	
DIBROMOMETHANE	<5.07	ug/Kg	5.07	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.1	ug/Kg	10.1	01/18/94	
ETHYL METHACRYLATE	<5.07	ug/Kg	5.07	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.07	ug/Kg	5.07	01/18/94	
IODOMETHANE	<10.1	ug/Kg	10.1	01/18/94	

SAMPLE ID- 0156HA07(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 685
TIME SAMPLED- 1053
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	6.87	ug/Kg	5.13		
TRICHLOROFLUOROMETHANE	<5.13	ug/Kg	5.13		
1,1-DICHLOROETHENE	<5.13	ug/Kg	5.13		
1,1-DICHLOROETHANE	<5.13	ug/Kg	5.13		
TRANS-1,2-DICHLOROETHENE	<5.13	ug/Kg	5.13		
CHLOROFORM	<5.13	ug/Kg	5.13		
1,2-DICHLOROETHANE	<5.13	ug/Kg	5.13		
1,1,1-TRICHLOROETHANE	38.6	ug/Kg	5.13		
CARBON TETRACHLORIDE	6.46	ug/Kg	5.13		
BROMODICHLOROMETHANE	<5.13	ug/Kg	5.13		
1,2-DICHLOROPROPANE	<5.13	ug/Kg	5.13		
CIS-1,3-DICHLOROPROPENE	<5.13	ug/Kg	5.13		
TRICHLOROETHENE	<5.13	ug/Kg	5.13		
DIBROMOCHLOROMETHANE	<5.13	ug/Kg	5.13		
1,1,2-TRICHLOROETHANE	<5.13	ug/Kg	5.13		
BENZENE	<5.13	ug/Kg	5.13		
TRANS-1,3-DICHLOROPROPENE	<5.13	ug/Kg	5.13		

CONTINUATION OF DATA FOR SAMPLE NUMBER 685

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.13	ug/Kg	5.13		
TETRACHLOROETHENE	<5.13	ug/Kg	5.13		
1,1,2,2-TETRACHLOROETHANE	<5.13	ug/Kg	5.13		
TOLUENE	<5.13	ug/Kg	5.13		
CHLOROBENZENE	<5.13	ug/Kg	5.13		
ETHYL BENZENE	<5.13	ug/Kg	5.13		
TOTAL XYLENES	<5.13	ug/Kg	5.13		
CIS 1,2-DICHLOROETHENE	<5.13	ug/Kg	5.13		
1,3-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
1,4-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
1,2-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
ACETONE	27.8	ug/Kg J	20.5		
CARBON DISULFIDE	<5.13	ug/Kg	5.13		
2-BUTANONE	<20.5	ug/Kg	20.5		
VINYL ACETATE	<20.5	ug/Kg	20.5		
4-METHYL-2-PENTANONE	<20.5	ug/Kg	20.5		
2-HEXANONE	<20.5	ug/Kg	20.5		
STYRENE	<5.13	ug/Kg	5.13		
SURROGATE 12-DICHLOROETHANE-D4	126	% Recovery			
SURROGATE TOLUENE-D8	84.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	84.0	% Recovery			
ACROLEIN	<5.13	ug/Kg	5.13	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.13	ug/Kg	5.13	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.13	ug/Kg	5.13	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.13	ug/Kg	5.13	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA07(004.0)
SAMPLE NUMBER- 686
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1123
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		

CONTINUATION OF DATA FOR SAMPLE NUMBER 686

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	5.31	ug/Kg	5.11		
TRICHLOROFLUOROMETHANE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHANE	<5.11	ug/Kg	5.11		
TRANS-1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
CHLOROFORM	<5.11	ug/Kg	5.11		
1,2-DICHLOROETHANE	<5.11	ug/Kg	5.11		
1,1,1-TRICHLOROETHANE	28.5	ug/Kg	5.11		
CARBON TETRACHLORIDE	<5.11	ug/Kg	5.11		
BROMODICHLOROMETHANE	<5.11	ug/Kg	5.11		
1,2-DICHLOROPROPANE	<5.11	ug/Kg	5.11		
CIS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		
TRICHLOROETHENE	<5.11	ug/Kg	5.11		
DIBROMOCHLOROMETHANE	<5.11	ug/Kg	5.11		
1,1,2-TRICHLOROETHANE	<5.11	ug/Kg	5.11		
BENZENE	<5.11	ug/Kg	5.11		
TRANS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.11	ug/Kg	5.11		
TETRACHLOROETHENE	<5.11	ug/Kg	5.11		
1,1,2,2-TETRACHLOROETHANE	<5.11	ug/Kg	5.11		
TOLUENE	<5.11	ug/Kg	5.11		
CHLOROBENZENE	<5.11	ug/Kg	5.11		
ETHYL BENZENE	<5.11	ug/Kg	5.11		
TOTAL XYLENES	<5.11	ug/Kg	5.11		
CIS 1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,3-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,4-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,2-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
ACETONE	<20.4	ug/Kg	20.4		
CARBON DISULFIDE	<5.11	ug/Kg	5.11		
2-BUTANONE	<20.4	ug/Kg	20.4		
VINYL ACETATE	<20.4	ug/Kg	20.4		
4-METHYL-2-PENTANONE	<20.4	ug/Kg	20.4		
2-HEXANONE	<20.4	ug/Kg	20.4		
STYRENE	<5.11	ug/Kg	5.11		
SURROGATE 12-DICHLOROETHANE-D4	133	% Recovery			
SURROGATE TOLUENE-D8	105	% Recovery			
SURROGATE BROMOFLUOROBENZENE	104	% Recovery			
ACROLEIN	<5.11	ug/Kg	5.11	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.11	ug/Kg	5.11	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	

CONTINUATION OF DATA FOR SAMPLE NUMBER 686

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ETHYL METHACRYLATE	<5.11	ug/Kg	5.11	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.11	ug/Kg	5.11	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 2730MW03(WATER)
TIME RECEIVED- 0915
DATE SAMPLED- 01/11/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 688
TIME SAMPLED- 1115
RECEIVED BY- DH
SAMPLE MATRIX- GROUNDWATER
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS					01/21/94	8260
CHLOROMETHANE	<	10	ug/L	10		
BROMOMETHANE	<	10	ug/L	10		
VINYL CHLORIDE	<	10	ug/L	10		
CHLOROETHANE	<	10	ug/L	10		
METHYLENE CHLORIDE	<	5	ug/L	5		
TRICHLOROFLUOROMETHANE	<	5	ug/L	5		
1,1-DICHLOROETHENE	<	5	ug/L	5		
1,1-DICHLOROETHANE	<	5	ug/L	5		
TRANS-1,2-DICHLOROETHENE	<	5	ug/L	5		
CHLOROFORM	<	5	ug/L	5		
1,2-DICHLOROETHANE	<	5	ug/L	5		
1,1,1-TRICHLOROETHANE	<	5	ug/L	5		
CARBON TETRACHLORIDE	<	5	ug/L	5		
BROMODICHLOROMETHANE	<	5	ug/L	5		
1,2-DICHLOROPROPANE	<	5	ug/L	5		
CIS-1,3-DICHLOROPROPENE	<	5	ug/L	5		
TRICHLOROETHENE	<	5	ug/L	5		
DIBROMOCHLOROMETHANE	<	5	ug/L	5		
1,1,2-TRICHLOROETHANE	<	5	ug/L	5		
BENZENE	<	5	ug/L	5		
TRANS-1,3-DICHLOROPROPENE	<	5	ug/L	5		
2-CHLOROETHYLVINYL ETHER	<	10	ug/L	10		
BROMOFORM	<	5	ug/L	5		
TETRACHLOROETHENE	<	5	ug/L	5		
1,1,2,2-TETRACHLOROETHANE	<	5	ug/L	5		
TOLUENE	<	5	ug/L	5		
CHLOROBENZENE	<	5	ug/L	5		
ETHYL BENZENE	<	5	ug/L	5		
TOTAL XYLENES	<	5	ug/L	5		

CONTINUATION OF DATA FOR SAMPLE NUMBER 688

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CIS 1,2-DICHLOROETHENE	<	5	ug/L	5		
1,3-DICHLOROBENZENE	<	5	ug/L	5		
1,4-DICHLOROBENZENE	<	5	ug/L	5		
1,2-DICHLOROBENZENE	<	5	ug/L	5		
ACETONE	<	20	ug/L	20		
CARBON DISULFIDE	<	5	ug/L	5		
2-BUTANONE	<	20	ug/L	20		
VINYL ACETATE	<	20	ug/L	20		
4-METHYL-2-PENTANONE	<	20	ug/L	20		
2-HEXANONE	<	20	ug/L	20		
STYRENE	<	5	ug/L	5		
SURROGATE 12-DICHLOROETHANE-D4		111	% Recovery			
SURROGATE TOLUENE-D8		83.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE		90.0	% Recovery			
ACROLEIN	<	5	ug/L	5	01/21/94	
ACRYLONITRILE	<	10	ug/L	10	01/21/94	
DIBROMOMETHANE	<	5	ug/L	5	01/21/94	
1,4-DICHLORO-2-BUTENE	<	10	ug/L	10	01/21/94	
ETHYL METHACRYLATE	<	5	ug/L	5	01/21/94	
1,2,3-TRICHLOROPROPANE	<	5	ug/L	5	01/21/94	
IODOMETHANE	<	10	ug/L	10	01/21/94	

SAMPLE ID- 0156HA08(003.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 689 **TIME SAMPLED- 1222** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	<5.08	ug/Kg	5.08		
TRICHLOROFLUOROMETHANE	<5.08	ug/Kg	5.08		
1,1-DICHLOROETHENE	<5.08	ug/Kg	5.08		
1,1-DICHLOROETHANE	<5.08	ug/Kg	5.08		
TRANS-1,2-DICHLOROETHENE	<5.08	ug/Kg	5.08		
CHLOROFORM	<5.08	ug/Kg	5.08		
1,2-DICHLOROETHANE	<5.08	ug/Kg	5.08		

CONTINUATION OF DATA FOR SAMPLE NUMBER 689

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
1,1,1-TRICHLOROETHANE	<5.08	ug/Kg	5.08		
CARBON TETRACHLORIDE	<5.08	ug/Kg	5.08		
BROMODICHLOROMETHANE	<5.08	ug/Kg	5.08		
1,2-DICHLOROPROPANE	<5.08	ug/Kg	5.08		
CIS-1,3-DICHLOROPROPENE	<5.08	ug/Kg	5.08		
TRICHLOROETHENE	<5.08	ug/Kg	5.08		
DIBROMOCHLOROMETHANE	<5.08	ug/Kg	5.08		
1,1,2-TRICHLOROETHANE	<5.08	ug/Kg	5.08		
BENZENE	<5.08	ug/Kg	5.08		
TRANS-1,3-DICHLOROPROPENE	<5.08	ug/Kg	5.08		
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.08	ug/Kg	5.08		
TETRACHLOROETHENE	<5.08	ug/Kg	5.08		
1,1,2,2-TETRACHLOROETHANE	<5.08	ug/Kg	5.08		
TOLUENE	<5.08	ug/Kg	5.08		
CHLOROBENZENE	<5.08	ug/Kg	5.08		
ETHYL BENZENE	<5.08	ug/Kg	5.08		
TOTAL XYLENES	<5.08	ug/Kg	5.08		
CIS 1,2-DICHLOROETHENE	<5.08	ug/Kg	5.08		
1,3-DICHLOROBENZENE	<5.08	ug/Kg	5.08		
1,4-DICHLOROBENZENE	<5.08	ug/Kg	5.08		
1,2-DICHLOROBENZENE	<5.08	ug/Kg	5.08		
ACETONE	<20.3	ug/Kg	20.3		
CARBON DISULFIDE	<5.08	ug/Kg	5.08		
2-BUTANONE	<20.3	ug/Kg	20.3		
VINYL ACETATE	<20.3	ug/Kg	20.3		
4-METHYL-2-PENTANONE	<20.3	ug/Kg	20.3		
2-HEXANONE	<20.3	ug/Kg	20.3		
STYRENE	<5.08	ug/Kg	5.08		
SURROGATE 12-DICHLOROETHANE-D4	153	% Recovery			
SURROGATE TOLUENE-D8	92.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	95.0	% Recovery			
ACROLEIN	<5.08	ug/Kg	5.08	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.08	ug/Kg	5.08	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.08	ug/Kg	5.08	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.08	ug/Kg	5.08	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA09(002.0)
SAMPLE NUMBER- 691
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.3	ug/Kg	10.3		
BROMOMETHANE	<10.3	ug/Kg	10.3		
VINYL CHLORIDE	<10.3	ug/Kg	10.3		
CHLOROETHANE	<10.3	ug/Kg	10.3		
METHYLENE CHLORIDE	<5.14	ug/Kg	5.14		
TRICHLOROFLUOROMETHANE	<5.14	ug/Kg	5.14		
1,1-DICHLOROETHENE	<5.14	ug/Kg	5.14		
1,1-DICHLOROETHANE	<5.14	ug/Kg	5.14		
TRANS-1,2-DICHLOROETHENE	<5.14	ug/Kg	5.14		
CHLOROFORM	<5.14	ug/Kg	5.14		
1,2-DICHLOROETHANE	<5.14	ug/Kg	5.14		
1,1,1-TRICHLOROETHANE	<5.14	ug/Kg	5.14		
CARBON TETRACHLORIDE	<5.14	ug/Kg	5.14		
BROMODICHLOROMETHANE	<5.14	ug/Kg	5.14		
1,2-DICHLOROPROPANE	<5.14	ug/Kg	5.14		
CIS-1,3-DICHLOROPROPENE	<5.14	ug/Kg	5.14		
TRICHLOROETHENE	<5.14	ug/Kg	5.14		
DIBROMOCHLOROMETHANE	<5.14	ug/Kg	5.14		
1,1,2-TRICHLOROETHANE	<5.14	ug/Kg	5.14		
BENZENE	<5.14	ug/Kg	5.14		
TRANS-1,3-DICHLOROPROPENE	<5.14	ug/Kg	5.14		
2-CHLOROETHYLVINYL ETHER	<10.3	ug/Kg	10.3		
BROMOFORM	<5.14	ug/Kg	5.14		
TETRACHLOROETHENE	<5.14	ug/Kg	5.14		
1,1,2,2-TETRACHLOROETHANE	<5.14	ug/Kg	5.14		
TOLUENE	<5.14	ug/Kg	5.14		
CHLOROBENZENE	<5.14	ug/Kg	5.14		
ETHYL BENZENE	<5.14	ug/Kg	5.14		
TOTAL XYLENES	<5.14	ug/Kg	5.14		
CIS 1,2-DICHLOROETHENE	<5.14	ug/Kg	5.14		
1,3-DICHLOROBENZENE	<5.14	ug/Kg	5.14		
1,4-DICHLOROBENZENE	<5.14	ug/Kg	5.14		
1,2-DICHLOROBENZENE	<5.14	ug/Kg	5.14		
ACETONE	<20.6	ug/Kg	20.6		
CARBON DISULFIDE	<5.14	ug/Kg	5.14		
2-BUTANONE	<20.6	ug/Kg	20.6		
VINYL ACETATE	<20.6	ug/Kg	20.6		
4-METHYL-2-PENTANONE	<20.6	ug/Kg	20.6		
2-HEXANONE	<20.6	ug/Kg	20.6		

CONTINUATION OF DATA FOR SAMPLE NUMBER 691

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STYRENE	<5.14	ug/Kg	5.14		
SURROGATE 12-DICHLOROETHANE-D4	133	% Recovery			
SURROGATE TOLUENE-D8	93.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	96.0	% Recovery			
ACROLEIN	<5.14	ug/Kg	5.14	01/18/94	
ACRYLONITRILE	<10.3	ug/Kg	10.3	01/18/94	
DIBROMOMETHANE	<5.14	ug/Kg	5.14	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.3	ug/Kg	10.3	01/18/94	
ETHYL METHACRYLATE	<5.14	ug/Kg	5.14	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.14	ug/Kg	5.14	01/18/94	
IODOMETHANE	<10.3	ug/Kg	10.3	01/18/94	

SAMPLE ID- 0156HA09(002.0)QC **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 692 **TIME SAMPLED- 1155** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	<5.12	ug/Kg	5.12		
TRICHLOROFLUOROMETHANE	<5.12	ug/Kg	5.12		
1,1-DICHLOROETHENE	<5.12	ug/Kg	5.12		
1,1-DICHLOROETHANE	<5.12	ug/Kg	5.12		
TRANS-1,2-DICHLOROETHENE	<5.12	ug/Kg	5.12		
CHLOROFORM	<5.12	ug/Kg	5.12		
1,2-DICHLOROETHANE	<5.12	ug/Kg	5.12		
1,1,1-TRICHLOROETHANE	<5.12	ug/Kg	5.12		
CARBON TETRACHLORIDE	<5.12	ug/Kg	5.12		
BROMODICHLOROMETHANE	<5.12	ug/Kg	5.12		
1,2-DICHLOROPROPANE	<5.12	ug/Kg	5.12		
CIS-1,3-DICHLOROPROPENE	<5.12	ug/Kg	5.12		
TRICHLOROETHENE	<5.12	ug/Kg	5.12		
DIBROMOCHLOROMETHANE	<5.12	ug/Kg	5.12		
1,1,2-TRICHLOROETHANE	<5.12	ug/Kg	5.12		
BENZENE	<5.12	ug/Kg	5.12		
TRANS-1,3-DICHLOROPROPENE	<5.12	ug/Kg	5.12		

CONTINUATION OF DATA FOR SAMPLE NUMBER 692

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.12	ug/Kg	5.12		
TETRACHLOROETHENE	<5.12	ug/Kg	5.12		
1,1,2,2-TETRACHLOROETHANE	<5.12	ug/Kg	5.12		
TOLUENE	<5.12	ug/Kg	5.12		
CHLOROBENZENE	<5.12	ug/Kg	5.12		
ETHYL BENZENE	<5.12	ug/Kg	5.12		
TOTAL XYLENES	<5.12	ug/Kg	5.12		
CIS 1,2-DICHLOROETHENE	<5.12	ug/Kg	5.12		
1,3-DICHLOROBENZENE	<5.12	ug/Kg	5.12		
1,4-DICHLOROBENZENE	<5.12	ug/Kg	5.12		
1,2-DICHLOROBENZENE	<5.12	ug/Kg	5.12		
ACETONE	<20.5	ug/Kg	20.5		
CARBON DISULFIDE	<5.12	ug/Kg	5.12		
2-BUTANONE	<20.5	ug/Kg	20.5		
VINYL ACETATE	<20.5	ug/Kg	20.5		
4-METHYL-2-PENTANONE	<20.5	ug/Kg	20.5		
2-HEXANONE	<20.5	ug/Kg	20.5		
STYRENE	<5.12	ug/Kg	5.12		
SURROGATE 12-DICHLOROETHANE-D4	131	% Recovery			
SURROGATE TOLUENE-D8	94.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	94.0	% Recovery			
ACROLEIN	<5.12	ug/Kg	5.12	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.12	ug/Kg	5.12	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.12	ug/Kg	5.12	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.12	ug/Kg	5.12	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA09(004.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 693 **TIME SAMPLED- 1204** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.1	ug/Kg	10.1		
BROMOMETHANE	<10.1	ug/Kg	10.1		
VINYL CHLORIDE	<10.1	ug/Kg	10.1		

CONTINUATION OF DATA FOR SAMPLE NUMBER 693

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLOROETHANE	<10.1	ug/Kg	10.1		
METHYLENE CHLORIDE	<5.07	ug/Kg	5.07		
TRICHLOROFLUOROMETHANE	<5.07	ug/Kg	5.07		
1,1-DICHLOROETHENE	5.27	ug/Kg	5.07		
1,1-DICHLOROETHANE	<5.07	ug/Kg	5.07		
TRANS-1,2-DICHLOROETHENE	<5.07	ug/Kg	5.07		
CHLOROFORM	<5.07	ug/Kg	5.07		
1,2-DICHLOROETHANE	<5.07	ug/Kg	5.07		
1,1,1-TRICHLOROETHANE	97.3	ug/Kg	5.07		
CARBON TETRACHLORIDE	15.8	ug/Kg	5.07		
BROMODICHLOROMETHANE	<5.07	ug/Kg	5.07		
1,2-DICHLOROPROPANE	<5.07	ug/Kg	5.07		
CIS-1,3-DICHLOROPROPENE	<5.07	ug/Kg	5.07		
TRICHLOROETHENE	<5.07	ug/Kg	5.07		
DIBROMOCHLOROMETHANE	<5.07	ug/Kg	5.07		
1,1,2-TRICHLOROETHANE	<5.07	ug/Kg	5.07		
BENZENE	<5.07	ug/Kg	5.07		
TRANS-1,3-DICHLOROPROPENE	<5.07	ug/Kg	5.07		
2-CHLOROETHYLVINYL ETHER	<10.1	ug/Kg	10.1		
BROMOFORM	<5.07	ug/Kg	5.07		
TETRACHLOROETHENE	<5.07	ug/Kg	5.07		
1,1,2,2-TETRACHLOROETHANE	<5.07	ug/Kg	5.07		
TOLUENE	<5.07	ug/Kg	5.07		
CHLOROBENZENE	<5.07	ug/Kg	5.07		
ETHYL BENZENE	<5.07	ug/Kg	5.07		
TOTAL XYLENES	<5.07	ug/Kg	5.07		
CIS 1,2-DICHLOROETHENE	<5.07	ug/Kg	5.07		
1,3-DICHLOROBENZENE	<5.07	ug/Kg	5.07		
1,4-DICHLOROBENZENE	<5.07	ug/Kg	5.07		
1,2-DICHLOROBENZENE	<5.07	ug/Kg	5.07		
ACETONE	<20.3	ug/Kg	20.3		
CARBON DISULFIDE	<5.07	ug/Kg	5.07		
2-BUTANONE	<20.3	ug/Kg	20.3		
VINYL ACETATE	<20.3	ug/Kg	20.3		
4-METHYL-2-PENTANONE	<20.3	ug/Kg	20.3		
2-HEXANONE	<20.3	ug/Kg	20.3		
STYRENE	<5.07	ug/Kg	5.07		
SURROGATE 12-DICHLOROETHANE-D4	131	% Recovery			
SURROGATE TOLUENE-D8	93.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	90.0	% Recovery			
ACROLEIN	<5.07	ug/Kg	5.07	01/18/94	
ACRYLONITRILE	<10.1	ug/Kg	10.1	01/18/94	
DIBROMOMETHANE	<5.07	ug/Kg	5.07	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.1	ug/Kg	10.1	01/18/94	

CONTINUATION OF DATA FOR SAMPLE NUMBER 693

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ETHYL METHACRYLATE	<5.07	ug/Kg	5.07	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.07	ug/Kg	5.07	01/18/94	
IODOMETHANE	<10.1	ug/Kg	10.1	01/18/94	

SAMPLE ID- 0156HA10(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 696
TIME SAMPLED- 1156
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.3	ug/Kg	10.3		
BROMOMETHANE	<10.3	ug/Kg	10.3		
VINYL CHLORIDE	<10.3	ug/Kg	10.3		
CHLOROETHANE	<10.3	ug/Kg	10.3		
METHYLENE CHLORIDE	<5.17	ug/Kg	5.17		
TRICHLOROFLUOROMETHANE	<5.17	ug/Kg	5.17		
1,1-DICHLOROETHENE	<5.17	ug/Kg	5.17		
1,1-DICHLOROETHANE	<5.17	ug/Kg	5.17		
TRANS-1,2-DICHLOROETHENE	<5.17	ug/Kg	5.17		
CHLOROFORM	<5.17	ug/Kg	5.17		
1,2-DICHLOROETHANE	<5.17	ug/Kg	5.17		
1,1,1-TRICHLOROETHANE	<5.17	ug/Kg	5.17		
CARBON TETRACHLORIDE	<5.17	ug/Kg	5.17		
BROMODICHLOROMETHANE	<5.17	ug/Kg	5.17		
1,2-DICHLOROPROPANE	<5.17	ug/Kg	5.17		
CIS-1,3-DICHLOROPROPENE	<5.17	ug/Kg	5.17		
TRICHLOROETHENE	<5.17	ug/Kg	5.17		
DIBROMOCHLOROMETHANE	<5.17	ug/Kg	5.17		
1,1,2-TRICHLOROETHANE	<5.17	ug/Kg	5.17		
BENZENE	<5.17	ug/Kg	5.17		
TRANS-1,3-DICHLOROPROPENE	<5.17	ug/Kg	5.17		
2-CHLOROETHYLVINYL ETHER	<10.3	ug/Kg	10.3		
BROMOFORM	<5.17	ug/Kg	5.17		
TETRACHLOROETHENE	<5.17	ug/Kg	5.17		
1,1,2,2-TETRACHLOROETHANE	<5.17	ug/Kg	5.17		
TOLUENE	<5.17	ug/Kg	5.17		
CHLOROBENZENE	<5.17	ug/Kg	5.17		
ETHYL BENZENE	<5.17	ug/Kg	5.17		
TOTAL XYLENES	<5.17	ug/Kg	5.17		

CONTINUATION OF DATA FOR SAMPLE NUMBER 696

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CIS 1,2-DICHLOROETHENE	<5.17	ug/Kg	5.17		
1,3-DICHLOROBENZENE	<5.17	ug/Kg	5.17		
1,4-DICHLOROBENZENE	<5.17	ug/Kg	5.17		
1,2-DICHLOROBENZENE	<5.17	ug/Kg	5.17		
ACETONE	<20.7	ug/Kg	20.7		
CARBON DISULFIDE	<5.17	ug/Kg	5.17		
2-BUTANONE	<20.7	ug/Kg	20.7		
VINYL ACETATE	<20.7	ug/Kg	20.7		
4-METHYL-2-PENTANONE	<20.7	ug/Kg	20.7		
2-HEXANONE	<20.7	ug/Kg	20.7		
STYRENE	<5.17	ug/Kg	5.17		
SURROGATE 12-DICHLOROETHANE-D4	135	% Recovery			
SURROGATE TOLUENE-D8	98.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	97.0	% Recovery			
ACROLEIN	<5.17	ug/Kg	5.17	01/18/94	
ACRYLONITRILE	<10.3	ug/Kg	10.3	01/18/94	
DIBROMOMETHANE	<5.17	ug/Kg	5.17	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.3	ug/Kg	10.3	01/18/94	
ETHYL METHACRYLATE	<5.17	ug/Kg	5.17	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.17	ug/Kg	5.17	01/18/94	
IODOMETHANE	<10.3	ug/Kg	10.3	01/18/94	

SAMPLE ID- 0156HA10(004.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 697 **TIME SAMPLED- 1206** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.4	ug/Kg	10.4		
BROMOMETHANE	<10.4	ug/Kg	10.4		
VINYL CHLORIDE	<10.4	ug/Kg	10.4		
CHLOROETHANE	<10.4	ug/Kg	10.4		
METHYLENE CHLORIDE	<5.18	ug/Kg	5.18		
TRICHLOROFLUOROMETHANE	<5.18	ug/Kg	5.18		
1,1-DICHLOROETHENE	<5.18	ug/Kg	5.18		
1,1-DICHLOROETHANE	<5.18	ug/Kg	5.18		
TRANS-1,2-DICHLOROETHENE	<5.18	ug/Kg	5.18		
CHLOROFORM	<5.18	ug/Kg	5.18		
1,2-DICHLOROETHANE	<5.18	ug/Kg	5.18		

CONTINUATION OF DATA FOR SAMPLE NUMBER 697

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
1,1,1-TRICHLOROETHANE	<5.18	ug/Kg	5.18		
CARBON TETRACHLORIDE	<5.18	ug/Kg	5.18		
BROMODICHLOROMETHANE	<5.18	ug/Kg	5.18		
1,2-DICHLOROPROPANE	<5.18	ug/Kg	5.18		
CIS-1,3-DICHLOROPROPENE	<5.18	ug/Kg	5.18		
TRICHLOROETHENE	<5.18	ug/Kg	5.18		
DIBROMOCHLOROMETHANE	<5.18	ug/Kg	5.18		
1,1,2-TRICHLOROETHANE	<5.18	ug/Kg	5.18		
BENZENE	<5.18	ug/Kg	5.18		
TRANS-1,3-DICHLOROPROPENE	<5.18	ug/Kg	5.18		
2-CHLOROETHYLVINYL ETHER	<10.4	ug/Kg	10.4		
BROMOFORM	<5.18	ug/Kg	5.18		
TETRACHLOROETHENE	<5.18	ug/Kg	5.18		
1,1,2,2-TETRACHLOROETHANE	<5.18	ug/Kg	5.18		
TOLUENE	<5.18	ug/Kg	5.18		
CHLOROBENZENE	<5.18	ug/Kg	5.18		
ETHYL BENZENE	<5.18	ug/Kg	5.18		
TOTAL XYLENES	<5.18	ug/Kg	5.18		
CIS 1,2-DICHLOROETHENE	<5.18	ug/Kg	5.18		
1,3-DICHLOROBENZENE	<5.18	ug/Kg	5.18		
1,4-DICHLOROBENZENE	<5.18	ug/Kg	5.18		
1,2-DICHLOROBENZENE	<5.18	ug/Kg	5.18		
ACETONE	<20.7	ug/Kg	20.7		
CARBON DISULFIDE	<5.18	ug/Kg	5.18		
2-BUTANONE	<20.7	ug/Kg	20.7		
VINYL ACETATE	<20.7	ug/Kg	20.7		
4-METHYL-2-PENTANONE	<20.7	ug/Kg	20.7		
2-HEXANONE	<20.7	ug/Kg	20.7		
STYRENE	<5.18	ug/Kg	5.18		
SURROGATE 12-DICHLOROETHANE-D4	135	% Recovery			
SURROGATE TOLUENE-D8	109	% Recovery			
SURROGATE BROMOFLUOROBENZENE	104	% Recovery			
ACROLEIN	<5.18	ug/Kg	5.18	01/18/94	
ACRYLONITRILE	<10.4	ug/Kg	10.4	01/18/94	
DIBROMOMETHANE	<5.18	ug/Kg	5.18	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.4	ug/Kg	10.4	01/18/94	
ETHYL METHACRYLATE	<5.18	ug/Kg	5.18	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.18	ug/Kg	5.18	01/18/94	
IODOMETHANE	<10.4	ug/Kg	10.4	01/18/94	

SAMPLE ID- 0156HA01(002.0)
SAMPLE NUMBER- 699
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1011
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	<5.13	ug/Kg	5.13		
TRICHLOROFLUOROMETHANE	<5.13	ug/Kg	5.13		
1,1-DICHLOROETHENE	<5.13	ug/Kg	5.13		
1,1-DICHLOROETHANE	<5.13	ug/Kg	5.13		
TRANS-1,2-DICHLOROETHENE	<5.13	ug/Kg	5.13		
CHLOROFORM	<5.13	ug/Kg	5.13		
1,2-DICHLOROETHANE	<5.13	ug/Kg	5.13		
1,1,1-TRICHLOROETHANE	<5.13	ug/Kg	5.13		
CARBON TETRACHLORIDE	<5.13	ug/Kg	5.13		
BROMODICHLOROMETHANE	<5.13	ug/Kg	5.13		
1,2-DICHLOROPROPANE	<5.13	ug/Kg	5.13		
CIS-1,3-DICHLOROPROPENE	<5.13	ug/Kg	5.13		
TRICHLOROETHENE	<5.13	ug/Kg	5.13		
DIBROMOCHLOROMETHANE	<5.13	ug/Kg	5.13		
1,1,2-TRICHLOROETHANE	<5.13	ug/Kg	5.13		
BENZENE	<5.13	ug/Kg	5.13		
TRANS-1,3-DICHLOROPROPENE	<5.13	ug/Kg	5.13		
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.13	ug/Kg	5.13		
TETRACHLOROETHENE	<5.13	ug/Kg	5.13		
1,1,2,2-TETRACHLOROETHANE	<5.13	ug/Kg	5.13		
TOLUENE	<5.13	ug/Kg	5.13		
CHLOROBENZENE	<5.13	ug/Kg	5.13		
ETHYL BENZENE	<5.13	ug/Kg	5.13		
TOTAL XYLENES	<5.13	ug/Kg	5.13		
CIS 1,2-DICHLOROETHENE	<5.13	ug/Kg	5.13		
1,3-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
1,4-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
1,2-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
ACETONE	<20.5	ug/Kg	20.5		
CARBON DISULFIDE	<5.13	ug/Kg	5.13		
2-BUTANONE	<20.5	ug/Kg	20.5		
VINYL ACETATE	<20.5	ug/Kg	20.5		
4-METHYL-2-PENTANONE	<20.5	ug/Kg	20.5		
2-HEXANONE	<20.5	ug/Kg	20.5		

CONTINUATION OF DATA FOR SAMPLE NUMBER 699

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STYRENE	<5.13	ug/Kg	5.13		
SURROGATE 12-DICHLOROETHANE-D4	141	% Recovery			
SURROGATE TOLUENE-D8	95.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	97.0	% Recovery			
ACROLEIN	<5.13	ug/Kg	5.13	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.13	ug/Kg	5.13	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.13	ug/Kg	5.13	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.13	ug/Kg	5.13	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA05(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 701
TIME SAMPLED- 1359
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	<5.13	ug/Kg	5.13		
TRICHLOROFLUOROMETHANE	<5.13	ug/Kg	5.13		
1,1-DICHLOROETHENE	<5.13	ug/Kg	5.13		
1,1-DICHLOROETHANE	<5.13	ug/Kg	5.13		
TRANS-1,2-DICHLOROETHENE	<5.13	ug/Kg	5.13		
CHLOROFORM	<5.13	ug/Kg	5.13		
1,2-DICHLOROETHANE	<5.13	ug/Kg	5.13		
1,1,1-TRICHLOROETHANE	<5.13	ug/Kg	5.13		
CARBON TETRACHLORIDE	<5.13	ug/Kg	5.13		
BROMODICHLOROMETHANE	<5.13	ug/Kg	5.13		
1,2-DICHLOROPROPANE	<5.13	ug/Kg	5.13		
CIS-1,3-DICHLOROPROPENE	<5.13	ug/Kg	5.13		
TRICHLOROETHENE	<5.13	ug/Kg	5.13		
DIBROMOCHLOROMETHANE	<5.13	ug/Kg	5.13		
1,1,2-TRICHLOROETHANE	<5.13	ug/Kg	5.13		
BENZENE	<5.13	ug/Kg	5.13		
TRANS-1,3-DICHLOROPROPENE	<5.13	ug/Kg	5.13		

CONTINUATION OF DATA FOR SAMPLE NUMBER 701

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.13	ug/Kg	5.13		
TETRACHLOROETHENE	<5.13	ug/Kg	5.13		
1,1,2,2-TETRACHLOROETHANE	<5.13	ug/Kg	5.13		
TOLUENE	<5.13	ug/Kg	5.13		
CHLOROBENZENE	<5.13	ug/Kg	5.13		
ETHYL BENZENE	<5.13	ug/Kg	5.13		
TOTAL XYLENES	<5.13	ug/Kg	5.13		
CIS 1,2-DICHLOROETHENE	<5.13	ug/Kg	5.13		
1,3-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
1,4-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
1,2-DICHLOROBENZENE	<5.13	ug/Kg	5.13		
ACETONE	<20.5	ug/Kg	20.5		
CARBON DISULFIDE	<5.13	ug/Kg	5.13		
2-BUTANONE	<20.5	ug/Kg	20.5		
VINYL ACETATE	<20.5	ug/Kg	20.5		
4-METHYL-2-PENTANONE	<20.5	ug/Kg	20.5		
2-HEXANONE	<20.5	ug/Kg	20.5		
STYRENE	<5.13	ug/Kg	5.13		
SURROGATE 12-DICHLOROETHANE-D4	136	% Recovery			
SURROGATE TOLUENE-D8	101	% Recovery			
SURROGATE BROMOFLUOROBENZENE	114	% Recovery			
ACROLEIN	<5.13	ug/Kg	5.13	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.13	ug/Kg	5.13	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.13	ug/Kg	5.13	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.13	ug/Kg	5.13	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA05(002.0)QC
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 702
TIME SAMPLED- 1359
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.3	ug/Kg	10.3		
BROMOMETHANE	<10.3	ug/Kg	10.3		
VINYL CHLORIDE	<10.3	ug/Kg	10.3		

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLOROETHANE	<10.3	ug/Kg	10.3		
METHYLENE CHLORIDE	<5.15	ug/Kg	5.15		
TRICHLOROFLUOROMETHANE	<5.15	ug/Kg	5.15		
1,1-DICHLOROETHENE	<5.15	ug/Kg	5.15		
1,1-DICHLOROETHANE	<5.15	ug/Kg	5.15		
TRANS-1,2-DICHLOROETHENE	<5.15	ug/Kg	5.15		
CHLOROFORM	<5.15	ug/Kg	5.15		
1,2-DICHLOROETHANE	<5.15	ug/Kg	5.15		
1,1,1-TRICHLOROETHANE	<5.15	ug/Kg	5.15		
CARBON TETRACHLORIDE	<5.15	ug/Kg	5.15		
BROMODICHLOROMETHANE	<5.15	ug/Kg	5.15		
1,2-DICHLOROPROPANE	<5.15	ug/Kg	5.15		
CIS-1,3-DICHLOROPROPENE	<5.15	ug/Kg	5.15		
TRICHLOROETHENE	<5.15	ug/Kg	5.15		
DIBROMOCHLOROMETHANE	<5.15	ug/Kg	5.15		
1,1,2-TRICHLOROETHANE	<5.15	ug/Kg	5.15		
BENZENE	<5.15	ug/Kg	5.15		
TRANS-1,3-DICHLOROPROPENE	<5.15	ug/Kg	5.15		
2-CHLOROETHYLVINYL ETHER	<10.3	ug/Kg	10.3		
BROMOFORM	<5.15	ug/Kg	5.15		
TETRACHLOROETHENE	<5.15	ug/Kg	5.15		
1,1,2,2-TETRACHLOROETHANE	<5.15	ug/Kg	5.15		
TOLUENE	<5.15	ug/Kg	5.15		
CHLOROBENZENE	<5.15	ug/Kg	5.15		
ETHYL BENZENE	<5.15	ug/Kg	5.15		
TOTAL XYLENES	<5.15	ug/Kg	5.15		
CIS 1,2-DICHLOROETHENE	<5.15	ug/Kg	5.15		
1,3-DICHLOROBENZENE	<5.15	ug/Kg	5.15		
1,4-DICHLOROBENZENE	<5.15	ug/Kg	5.15		
1,2-DICHLOROBENZENE	<5.15	ug/Kg	5.15		
ACETONE	<20.6	ug/Kg	20.6		
CARBON DISULFIDE	<5.15	ug/Kg	5.15		
2-BUTANONE	<20.6	ug/Kg	20.6		
VINYL ACETATE	<20.6	ug/Kg	20.6		
4-METHYL-2-PENTANONE	<20.6	ug/Kg	20.6		
2-HEXANONE	<20.6	ug/Kg	20.6		
STYRENE	<5.15	ug/Kg	5.15		
SURROGATE 12-DICHLOROETHANE-D4	139	% Recovery			
SURROGATE TOLUENE-D8	92.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	103	% Recovery			
ACROLEIN	<5.15	ug/Kg	5.15	01/18/94	
ACRYLONITRILE	<10.3	ug/Kg	10.3	01/18/94	
DIBROMOMETHANE	<5.15	ug/Kg	5.15	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.3	ug/Kg	10.3	01/18/94	

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ETHYL METHACRYLATE	<5.15	ug/Kg	5.15	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.15	ug/Kg	5.15	01/18/94	
IODOMETHANE	<10.3	ug/Kg	10.3	01/18/94	

SAMPLE ID- 0156HA05(003.0)
SAMPLE NUMBER- 703
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1410
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	<5.10	ug/Kg	5.10		
TRICHLOROFLUOROMETHANE	<5.10	ug/Kg	5.10		
1,1-DICHLOROETHENE	<5.10	ug/Kg	5.10		
1,1-DICHLOROETHANE	<5.10	ug/Kg	5.10		
TRANS-1,2-DICHLOROETHENE	<5.10	ug/Kg	5.10		
CHLOROFORM	<5.10	ug/Kg	5.10		
1,2-DICHLOROETHANE	<5.10	ug/Kg	5.10		
1,1,1-TRICHLOROETHANE	<5.10	ug/Kg	5.10		
CARBON TETRACHLORIDE	<5.10	ug/Kg	5.10		
BROMODICHLOROMETHANE	<5.10	ug/Kg	5.10		
1,2-DICHLOROPROPANE	<5.10	ug/Kg	5.10		
CIS-1,3-DICHLOROPROPENE	<5.10	ug/Kg	5.10		
TRICHLOROETHENE	<5.10	ug/Kg	5.10		
DIBROMOCHLOROMETHANE	<5.10	ug/Kg	5.10		
1,1,2-TRICHLOROETHANE	<5.10	ug/Kg	5.10		
BENZENE	<5.10	ug/Kg	5.10		
TRANS-1,3-DICHLOROPROPENE	<5.10	ug/Kg	5.10		
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.10	ug/Kg	5.10		
TETRACHLOROETHENE	<5.10	ug/Kg	5.10		
1,1,2,2-TETRACHLOROETHANE	<5.10	ug/Kg	5.10		
TOLUENE	<5.10	ug/Kg	5.10		
CHLOROBENZENE	<5.10	ug/Kg	5.10		
ETHYL BENZENE	<5.10	ug/Kg	5.10		
TOTAL XYLENES	<5.10	ug/Kg	5.10		

CONTINUATION OF DATA FOR SAMPLE NUMBER 703

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CIS 1,2-DICHLOROETHENE	<5.10	ug/Kg	5.10		
1,3-DICHLOROBENZENE	<5.10	ug/Kg	5.10		
1,4-DICHLOROBENZENE	<5.10	ug/Kg	5.10		
1,2-DICHLOROBENZENE	<5.10	ug/Kg	5.10		
ACETONE	<20.4	ug/Kg	20.4		
CARBON DISULFIDE	<5.10	ug/Kg	5.10		
2-BUTANONE	<20.4	ug/Kg	20.4		
VINYL ACETATE	<20.4	ug/Kg	20.4		
4-METHYL-2-PENTANONE	<20.4	ug/Kg	20.4		
2-HEXANONE	<20.4	ug/Kg	20.4		
STYRENE	<5.10	ug/Kg	5.10		
SURROGATE 12-DICHLOROETHANE-D4	141	% Recovery			
SURROGATE TOLUENE-D8	95.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	105	% Recovery			
ACROLEIN	<5.10	ug/Kg	5.10	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.10	ug/Kg	5.10	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.10	ug/Kg	5.10	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.10	ug/Kg	5.10	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA06(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 707
TIME SAMPLED- 1357
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.7	ug/Kg	10.7		
BROMOMETHANE	<10.7	ug/Kg	10.7		
VINYL CHLORIDE	<10.7	ug/Kg	10.7		
CHLOROETHANE	<10.7	ug/Kg	10.7		
METHYLENE CHLORIDE	<5.36	ug/Kg	5.36		
TRICHLOROFLUOROMETHANE	<5.36	ug/Kg	5.36		
1,1-DICHLOROETHENE	<5.36	ug/Kg	5.36		
1,1-DICHLOROETHANE	<5.36	ug/Kg	5.36		
TRANS-1,2-DICHLOROETHENE	<5.36	ug/Kg	5.36		
CHLOROFORM	<5.36	ug/Kg	5.36		
1,2-DICHLOROETHANE	<5.36	ug/Kg	5.36		

CONTINUATION OF DATA FOR SAMPLE NUMBER 707

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
1,1,1-TRICHLOROETHANE	<5.36	ug/Kg	5.36		
CARBON TETRACHLORIDE	<5.36	ug/Kg	5.36		
BROMODICHLOROMETHANE	<5.36	ug/Kg	5.36		
1,2-DICHLOROPROPANE	<5.36	ug/Kg	5.36		
CIS-1,3-DICHLOROPROPENE	<5.36	ug/Kg	5.36		
TRICHLOROETHENE	<5.36	ug/Kg	5.36		
DIBROMOCHLOROMETHANE	<5.36	ug/Kg	5.36		
1,1,2-TRICHLOROETHANE	<5.36	ug/Kg	5.36		
BENZENE	<5.36	ug/Kg	5.36		
TRANS-1,3-DICHLOROPROPENE	<5.36	ug/Kg	5.36		
2-CHLOROETHYLVINYL ETHER	<10.7	ug/Kg	10.7		
BROMOFORM	<5.36	ug/Kg	5.36		
TETRACHLOROETHENE	<5.36	ug/Kg	5.36		
1,1,2,2-TETRACHLOROETHANE	<5.36	ug/Kg	5.36		
TOLUENE	<5.36	ug/Kg	5.36		
CHLOROBENZENE	<5.36	ug/Kg	5.36		
ETHYL BENZENE	<5.36	ug/Kg	5.36		
TOTAL XYLENES	<5.36	ug/Kg	5.36		
CIS 1,2-DICHLOROETHENE	<5.36	ug/Kg	5.36		
1,3-DICHLOROBENZENE	<5.36	ug/Kg	5.36		
1,4-DICHLOROBENZENE	<5.36	ug/Kg	5.36		
1,2-DICHLOROBENZENE	<5.36	ug/Kg	5.36		
ACETONE	<21.4	ug/Kg	21.4		
CARBON DISULFIDE	<5.36	ug/Kg	5.36		
2-BUTANONE	<21.4	ug/Kg	21.4		
VINYL ACETATE	<21.4	ug/Kg	21.4		
4-METHYL-2-PENTANONE	<21.4	ug/Kg	21.4		
2-HEXANONE	<21.4	ug/Kg	21.4		
STYRENE	<5.36	ug/Kg	5.36		
SURROGATE 12-DICHLOROETHANE-D4	135	% Recovery			
SURROGATE TOLUENE-D8	101	% Recovery			
SURROGATE BROMOFLUOROBENZENE	106	% Recovery			
ACROLEIN	<5.36	ug/Kg	5.36	01/18/94	
ACRYLONITRILE	<10.7	ug/Kg	10.7	01/18/94	
DIBROMOMETHANE	<5.36	ug/Kg	5.36	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.7	ug/Kg	10.7	01/18/94	
ETHYL METHACRYLATE	<5.36	ug/Kg	5.36	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.36	ug/Kg	5.36	01/18/94	
IODOMETHANE	<10.7	ug/Kg	10.7	01/18/94	

SAMPLE ID- 0156HA06(004.0)
SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	<5.11	ug/Kg	5.11		
TRICHLOROFLUOROMETHANE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHANE	<5.11	ug/Kg	5.11		
TRANS-1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
CHLOROFORM	<5.11	ug/Kg	5.11		
1,2-DICHLOROETHANE	<5.11	ug/Kg	5.11		
1,1,1-TRICHLOROETHANE	60.0	ug/Kg	5.11		
CARBON TETRACHLORIDE	7.56	ug/Kg	5.11		
BROMODICHLOROMETHANE	<5.11	ug/Kg	5.11		
1,2-DICHLOROPROPANE	<5.11	ug/Kg	5.11		
CIS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		
TRICHLOROETHENE	<5.11	ug/Kg	5.11		
DIBROMOCHLOROMETHANE	<5.11	ug/Kg	5.11		
1,1,2-TRICHLOROETHANE	<5.11	ug/Kg	5.11		
BENZENE	<5.11	ug/Kg	5.11		
TRANS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.11	ug/Kg	5.11		
TETRACHLOROETHENE	<5.11	ug/Kg	5.11		
1,1,2,2-TETRACHLOROETHANE	<5.11	ug/Kg	5.11		
TOLUENE	<5.11	ug/Kg	5.11		
CHLOROBENZENE	<5.11	ug/Kg	5.11		
ETHYL BENZENE	<5.11	ug/Kg	5.11		
TOTAL XYLENES	<5.11	ug/Kg	5.11		
CIS 1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,3-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,4-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,2-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
ACETONE	<20.4	ug/Kg	20.4		
CARBON DISULFIDE	<5.11	ug/Kg	5.11		
2-BUTANONE	<20.4	ug/Kg	20.4		
VINYL ACETATE	<20.4	ug/Kg	20.4		
4-METHYL-2-PENTANONE	<20.4	ug/Kg	20.4		
2-HEXANONE	<20.4	ug/Kg	20.4		

CONTINUATION OF DATA FOR SAMPLE NUMBER 708

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STYRENE	<5.11	ug/Kg	5.11		
SURROGATE 12-DICHLOROETHANE-D4	149	% Recovery			
SURROGATE TOLUENE-D8	91.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	97.0	% Recovery			
ACROLEIN	<5.11	ug/Kg	5.11	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.11	ug/Kg	5.11	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.11	ug/Kg	5.11	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.11	ug/Kg	5.11	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 0156HA08(002.0)
SAMPLE NUMBER- 710
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1055
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
				HT [illegible]	
VOLATILE ORGANIC COMPOUNDS				01/18/94	8260
CHLOROMETHANE	<10.2	ug/Kg	10.2		
BROMOMETHANE	<10.2	ug/Kg	10.2		
VINYL CHLORIDE	<10.2	ug/Kg	10.2		
CHLOROETHANE	<10.2	ug/Kg	10.2		
METHYLENE CHLORIDE	<5.11	ug/Kg	5.11		
TRICHLOROFLUOROMETHANE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,1-DICHLOROETHANE	<5.11	ug/Kg	5.11		
TRANS-1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
CHLOROFORM	<5.11	ug/Kg	5.11		
1,2-DICHLOROETHANE	<5.11	ug/Kg	5.11		
1,1,1-TRICHLOROETHANE	<5.11	ug/Kg	5.11		
CARBON TETRACHLORIDE	<5.11	ug/Kg	5.11		
BROMODICHLOROMETHANE	<5.11	ug/Kg	5.11		
1,2-DICHLOROPROPANE	<5.11	ug/Kg	5.11		
CIS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		
TRICHLOROETHENE	<5.11	ug/Kg	5.11		
DIBROMOCHLOROMETHANE	<5.11	ug/Kg	5.11		
1,1,2-TRICHLOROETHANE	<5.11	ug/Kg	5.11		
BENZENE	<5.11	ug/Kg	5.11		
TRANS-1,3-DICHLOROPROPENE	<5.11	ug/Kg	5.11		

CONTINUATION OF DATA FOR SAMPLE NUMBER 710

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2-CHLOROETHYLVINYL ETHER	<10.2	ug/Kg	10.2		
BROMOFORM	<5.11	ug/Kg	5.11		
TETRACHLOROETHENE	<5.11	ug/Kg	5.11		
1,1,2,2-TETRACHLOROETHANE	<5.11	ug/Kg	5.11		
TOLUENE	<5.11	ug/Kg	5.11		
CHLOROBENZENE	<5.11	ug/Kg	5.11		
ETHYL BENZENE	<5.11	ug/Kg	5.11		
TOTAL XYLENES	<5.11	ug/Kg	5.11		
CIS 1,2-DICHLOROETHENE	<5.11	ug/Kg	5.11		
1,3-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,4-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
1,2-DICHLOROBENZENE	<5.11	ug/Kg	5.11		
ACETONE	<20.4	ug/Kg	20.4		
CARBON DISULFIDE	<5.11	ug/Kg	5.11		
2-BUTANONE	<20.4	ug/Kg	20.4		
VINYL ACETATE	<20.4	ug/Kg	20.4		
4-METHYL-2-PENTANONE	<20.4	ug/Kg	20.4		
2-HEXANONE	<20.4	ug/Kg	20.4		
STYRENE	<5.11	ug/Kg	5.11		
SURROGATE 12-DICHLOROETHANE-D4	132	% Recovery			
SURROGATE TOLUENE-D8	94.0	% Recovery			
SURROGATE BROMOFLUOROBENZENE	104	% Recovery			
ACROLEIN	<5.11	ug/Kg	5.11	01/18/94	
ACRYLONITRILE	<10.2	ug/Kg	10.2	01/18/94	
DIBROMOMETHANE	<5.11	ug/Kg	5.11	01/18/94	
1,4-DICHLORO-2-BUTENE	<10.2	ug/Kg	10.2	01/18/94	
ETHYL METHACRYLATE	<5.11	ug/Kg	5.11	01/18/94	
1,2,3-TRICHLOROPROPANE	<5.11	ug/Kg	5.11	01/18/94	
IODOMETHANE	<10.2	ug/Kg	10.2	01/18/94	

SAMPLE ID- 2730MW04(WATER) **TIME RECEIVED- 0945**
DATE SAMPLED- 01/12/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 711 **TIME SAMPLED- 0830** **RECEIVED BY- DH**
SAMPLE MATRIX- GROUNDWATER **DATE RECEIVED- 01/13/94** **SAMPLER- CLIENT**

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
VOLATILE ORGANIC COMPOUNDS					01/21/94	8260
CHLOROMETHANE	<	10	ug/L	10		
BROMOMETHANE	<	10	ug/L	10		
VINYL CHLORIDE	<	10	ug/L	10		

CONTINUATION OF DATA FOR SAMPLE NUMBER 675

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL		30.0	% Recovery			
SURROGATE TERPHENYL-D14		42.0	% Recovery			
1-CHLOROANAPHTHALENE	<	10	ug/L	10	02/16/94	
DIPHENYLAMINE	<	20	ug/L	20	02/16/94	
1,2-DIPHENYLHYDRAZINE	<	50	ug/L	50	02/16/94	
BENZIDINE	<	50	ug/L	50	02/16/94	

SAMPLE ID- 0156HA09(WATER)EB
TIME RECEIVED- 0930
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 676
TIME SAMPLED- 1330
RECEIVED BY- DH
SAMPLE MATRIX- GROUNDWATER
DATE RECEIVED- 01/11/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS					02/16/94	8270
PHENOL	<	10	ug/L	10		
2-CHLOROPHENOL	<	10	ug/L	10		
2-NITROPHENOL	<	10	ug/L	10		
2,4-DIMETHYLPHENOL	<	10	ug/L	10		
2,4-DICHLOROPHENOL	<	10	ug/L	10		
4-CHLORO-3-METHYLPHENOL	<	20	ug/L	20		
2,4,6-TRICHLOROPHENOL	<	10	ug/L	10		
2,4-DINITROPHENOL	<	50	ug/L	50		
4-NITROPHENOL	<	50	ug/L	50		
4,6-DINITRO-2-METHYLPHENOL	<	50	ug/L	50		
PENTACHLOROPHENOL	<	50	ug/L	50		
2,4,5-TRICHLOROPHENOL	<	10	ug/L	10		
4-METHYLPHENOL	<	10	ug/L	10		
2-METHYLPHENOL	<	10	ug/L	10		
BENZYL ALCOHOL	<	10	ug/L	10		
BENZOIC ACID	<	50	ug/L	50		
2-METHYLNAPHTHALENE	<	10	ug/L	10		
2-NITROANILINE	<	50	ug/L	50		
3-NITROANILINE	<	50	ug/L	50		
4-NITROANILINE	<	50	ug/L	50		
4-CHLOROANILINE	<	10	ug/L	10		
DIBENZOFURAN	<	10	ug/L	10		
SURROGATE PHENOL-D5		27.0	% Recovery			
SURROGATE 2-FLUOROPHENOL		44.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL		82.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/16/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 676

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<	10	ug/L	10		
1,3-DICHLOROBENZENE	<	10	ug/L	10		
1,4-DICHLOROBENZENE	<	10	ug/L	10		
1,2-DICHLOROBENZENE	<	10	ug/L	10		
BIS(2-CHLOROISOPROPYL)ETHER	<	10	ug/L	10		
N-NITROSO-DI-N-PROPYLAMINE	<	10	ug/L	10		
HEXACHLOROETHANE	<	10	ug/L	10		
NITROBENZENE	<	10	ug/L	10		
ISOPHORONE	<	10	ug/L	10		
BIS(2-CHLOROETHOXY)METHANE	<	10	ug/L	10		
1,2,4-TRICHLOROBENZENE	<	10	ug/L	10		
NAPHTHALENE	<	10	ug/L	10		
HEXACHLOROBUTADIENE	<	10	ug/L	10		
HEXACHLOROCYCLOPENTADIENE	<	10	ug/L	10		
2-CHLORONAPHTHALENE	<	10	ug/L	10		
DIMETHYLPHTHALATE	<	10	ug/L	10		
ACENAPHTHYLENE	<	10	ug/L	10		
ACENAPHTHENE	<	10	ug/L	10		
2,4-DINITROTQLUENE	<	10	ug/L	10		
2,6-DINITROTOLUENE	<	10	ug/L	10		
DIETHYLPHTHALATE	<	10	ug/L	10		
4-CHLOROPHENYL-PHENYLETHER	<	10	ug/L	10		
FLUORENE	<	10	ug/L	10		
N-NITROSODIPHENYLAMINE (1)	<	10	ug/L	10		
4-BROMOPHENYL PHENYL ETHER	<	10	ug/L	10		
HEXACHLOROBENZENE	<	10	ug/L	10		
PHENANTHRENE	<	10	ug/L	10		
ANTHRACENE	<	10	ug/L	10		
DI-N-BUTYLPHTHALATE	<	10	ug/L	10		
FLUORANTHENE	<	10	ug/L	10		
PYRENE	<	10	ug/L	10		
BUTYLBENZYLPHTHALATE	<	10	ug/L	10		
3,3'-DICHLOROBENZIDINE	<	10	ug/L	10		
BENZO(A)ANTHRACENE	<	10	ug/L	10		
BIS(2-ETHYLHEXYL)PHTHALATE	<	10	ug/L	10		
CHRYSENE	<	10	ug/L	10		
DI-N-OCTYLPHTHALATE	<	10	ug/L	10		
BENZO(B)FLUORANTHENE	<	10	ug/L	10		
BENZO(K)FLUORANTHENE	<	10	ug/L	10		
BENZO(A)PYRENE	<	10	ug/L	10		
INDENO(1,2,3-CD)PYRENE	<	10	ug/L	10		
DIBENZ(A,H)ANTHRACENE	<	10	ug/L	10		
BENZO(G,H,I)PERYLENE	<	10	ug/L	10		
SURROGATE NITROBENZENE-D5		65.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 676

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL		69.0	% Recovery			
SURROGATE TERPHENYL-D14		97.0	% Recovery			
1-CHLOROANAPHTHALENE	<	10	ug/L	10	02/16/94	
DIPHENYLAMINE	<	20	ug/L	20	02/16/94	
1,2-DIPHENYLHYDRAZINE	<	50	ug/L	50	02/16/94	
BENZIDINE	<	50	ug/L	50	02/16/94	

SAMPLE ID- 0156HA02(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 678
TIME SAMPLED- 1004
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<340	ug/Kg	340		
2-CHLOROPHENOL	<340	ug/Kg	340		
2-NITROPHENOL	<340	ug/Kg	340		
2,4-DIMETHYLPHENOL	<340	ug/Kg	340		
2,4-DICHLOROPHENOL	<340	ug/Kg	340		
4-CHLORO-3-METHYLPHENOL	<340	ug/Kg	340		
2,4,6-TRICHLOROPHENOL	<340	ug/Kg	340		
2,4-DINITROPHENOL	<1650	ug/Kg	1650		
4-NITROPHENOL	<1650	ug/Kg	1650		
4,6-DINITRO-2-METHYLPHENOL	<1650	ug/Kg	1650		
PENTACHLOROPHENOL	<1650	ug/Kg	1650		
2,4,5-TRICHLOROPHENOL	<340	ug/Kg	340		
4-METHYLPHENOL	<340	ug/Kg	340		
2-METHYLPHENOL	<340	ug/Kg	340		
BENZYL ALCOHOL	<340	ug/Kg	340		
BENZOIC ACID	<1650	ug/Kg	1650		
2-METHYLNAPHTHALENE	<340	ug/Kg	340		
2-NITROANILINE	<1650	ug/Kg	1650		
3-NITROANILINE	<1650	ug/Kg	1650		
4-NITROANILINE	<1650	ug/Kg	1650		
4-CHLOROANILINE	<340	ug/Kg	340		
DIBENZOFURAN	<340	ug/Kg	340		
SURROGATE PHENOL-D5	56.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	55.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	53.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 678

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<340	ug/Kg	340		
1,3-DICHLOROBENZENE	<340	ug/Kg	340		
1,4-DICHLOROBENZENE	<340	ug/Kg	340		
1,2-DICHLOROBENZENE	<340	ug/Kg	340		
BIS(2-CHLOROISOPROPYL)ETHER	<340	ug/Kg	340		
N-NITROSO-DI-N-PROPYLAMINE	<340	ug/Kg	340		
HEXACHLOROETHANE	<340	ug/Kg	340		
NITROBENZENE	<340	ug/Kg	340		
ISOPHORONE	<340	ug/Kg	340		
BIS(2-CHLOROETHOXY)METHANE	<340	ug/Kg	340		
1,2,4-TRICHLOROBENZENE	<340	ug/Kg	340		
NAPHTHALENE	<340	ug/Kg	340		
HEXACHLOROBUTADIENE	<340	ug/Kg	340		
HEXACHLOROCYCLOPENTADIENE	<340	ug/Kg	340		
2-CHLORONAPHTHALENE	<340	ug/Kg	340		
DIMETHYLPHTHALATE	<340	ug/Kg	340		
ACENAPHTHYLENE	<340	ug/Kg	340		
ACENAPHTHENE	<340	ug/Kg	340		
2,4-DINITROTOLUENE	<340	ug/Kg	340		
2,6-DINITROTOLUENE	<340	ug/Kg	340		
DIETHYLPHTHALATE	<340	ug/Kg	340		
4-CHLOROPHENYL-PHENYLETHER	<340	ug/Kg	340		
FLUORENE	<340	ug/Kg	340		
N-NITROSODIPHENYLAMINE (1)	<340	ug/Kg	340		
4-BROMOPHENYL PHENYL ETHER	<340	ug/Kg	340		
HEXACHLOROBENZENE	<340	ug/Kg	340		
PHENANTHRENE	<340	ug/Kg	340		
ANTHRACENE	<340	ug/Kg	340		
DI-N-BUTYLPHTHALATE	<340	ug/Kg	340		
FLUORANTHENE	<340	ug/Kg	340		
PYRENE	<340	ug/Kg	340		
BUTYLBENZYLPHTHALATE	<340	ug/Kg	340		
3,3'-DICHLOROBENZIDINE	<340	ug/Kg	340		
BENZO(A)ANTHRACENE	<340	ug/Kg	340		
BIS(2-ETHYLHEXYL)PHTHALATE	<340	ug/Kg	340		
CHRYSENE	<340	ug/Kg	340		
DI-N-OCTYLPHTHALATE	<340	ug/Kg	340		
BENZO(B)FLUORANTHENE	<340	ug/Kg	340		
BENZO(K)FLUORANTHENE	<340	ug/Kg	340		
BENZO(A)PYRENE	<340	ug/Kg	340		
INDENO(1,2,3-CD)PYRENE	<340	ug/Kg	340		
DIBENZ(A,H)ANTHRACENE	<340	ug/Kg	340		
BENZO(G,H,I)PERYLENE	<340	ug/Kg	340		
SURROGATE NITROBENZENE-D5	43.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 678

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	48.0	% Recovery			
SURROGATE TERPHENYL-D14	59.0	% Recovery			
1-CHLOROANAPHTHALENE	<340	ug/Kg	340	02/11/94	
DIPHENYLAMINE	<1030	ug/Kg	1030	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1650	ug/Kg	1650	02/11/94	
BENZIDINE	<1650	ug/Kg	1650	02/11/94	

SAMPLE ID- 0156HA02(002.0)

SAMPLE NUMBER- 679
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1014
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<337.	ug/Kg	337.		
2-CHLOROPHENOL	<337.	ug/Kg	337.		
2-NITROPHENOL	<337.	ug/Kg	337.		
2,4-DIMETHYLPHENOL	<337.	ug/Kg	337.		
2,4-DICHLOROPHENOL	<337.	ug/Kg	337.		
4-CHLORO-3-METHYLPHENOL	<337.	ug/Kg	337.		
2,4,6-TRICHLOROPHENOL	<337.	ug/Kg	337.		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	<1640	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	<1640	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<337.	ug/Kg	337.		
4-METHYLPHENOL	<337.	ug/Kg	337.		
2-METHYLPHENOL	<337.	ug/Kg	337.		
BENZYL ALCOHOL	<337.	ug/Kg	337.		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<337.	ug/Kg	337.		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<337.	ug/Kg	337.		
DIBENZOFURAN	<337.	ug/Kg	337.		
SURROGATE PHENOL-D5	76.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	76.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	65.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 704 [156HA06(000.0)]

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<338	ug/Kg	338		
1,3-DICHLOROBENZENE	<338	ug/Kg	338		
1,4-DICHLOROBENZENE	<338	ug/Kg	338		
1,2-DICHLOROBENZENE	<338	ug/Kg	338		
BIS(2-CHLOROISOPROPYL)ETHER	<338	ug/Kg	338		
N-NITROSO-DI-N-PROPYLAMINE	<338	ug/Kg	338		
HEXACHLOROETHANE	<338	ug/Kg	338		
NITROBENZENE	<338	ug/Kg	338		
ISOPHORONE	<338	ug/Kg	338		
BIS(2-CHLOROETHOXY)METHANE	<338	ug/Kg	338		
1,2,4-TRICHLOROBENZENE	<338	ug/Kg	338		
NAPHTHALENE	<338	ug/Kg	338		
HEXACHLOROBUTADIENE	<338	ug/Kg	338		
HEXACHLOROCYCLOPENTADIENE	<338	ug/Kg	338		
2-CHLORONAPHTHALENE	<338	ug/Kg	338		
DIMETHYLPHTHALATE	<338	ug/Kg	338		
ACENAPHTHYLENE	<338	ug/Kg	338		
ACENAPHTHENE	<338	ug/Kg	338		
2,4-DINITROTOLUENE	<338	ug/Kg	338		
2,6-DINITROTOLUENE	<338	ug/Kg	338		
DIETHYLPHTHALATE	<338	ug/Kg	338		
4-CHLOROPHENYL-PHENYLETHER	<338	ug/Kg	338		
FLUORENE	<338	ug/Kg	338		
N-NITROSODIPHENYLAMINE (1)	<338	ug/Kg	338		
4-BROMOPHENYL PHENYL ETHER	<338	ug/Kg	338		
HEXACHLOROBENZENE	<338	ug/Kg	338		
PHENANTHRENE	<338	ug/Kg	338		
ANTHRACENE	<338	ug/Kg	338		
DI-N-BUTYLPHTHALATE	<338	ug/Kg	338		
FLUORANTHENE	<338	ug/Kg	338		
PYRENE	<338	ug/Kg	338		
BUTYLBENZYLPHTHALATE	<338	ug/Kg	338		
3,3'-DICHLOROBENZIDINE	<338	ug/Kg	338		
BENZO(A)ANTHRACENE	<338	ug/Kg	338		
BIS(2-ETHYLHEXYL)PHTHALATE	<338	ug/Kg	338		
CHRYSENE	<338	ug/Kg	338		
DI-N-OCTYLPHTHALATE	<338	ug/Kg	338		
BENZO(B)FLUORANTHENE	<338	ug/Kg	338		
BENZO(K)FLUORANTHENE	<338	ug/Kg	338		
BENZO(A)PYRENE	<338	ug/Kg	338		
INDENO(1,2,3-CD)PYRENE	<338	ug/Kg	338		
DIBENZ(A,H)ANTHRACENE	<338	ug/Kg	338		
BENZO(G,H,I)PERYLENE	<338	ug/Kg	338		
SURROGATE NITROBENZENE-D5	44.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 704

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	54.0	% Recovery			
SURROGATE TERPHENYL-D14	58.0	% Recovery			
1-CHLOROANAPHTHALENE	<338	ug/Kg	338	02/21/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/21/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/21/94	
BENZIDINE	<1640	ug/Kg	1640	02/21/94	

SAMPLE ID- 0156HA06(000.0)MS
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 705
TIME SAMPLED- 1349
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/21/94	8270
PHENOL	3130	ug/Kg	337.		
2-CHLOROPHENOL	3750	ug/Kg	337.		
2-NITROPHENOL	<337.	ug/Kg	337.		
2,4-DIMETHYLPHENOL	<337.	ug/Kg	337.		
2,4-DICHLOROPHENOL	<337.	ug/Kg	337.		
4-CHLORO-3-METHYLPHENOL	3150	ug/Kg	337.		
2,4,6-TRICHLOROPHENOL	<337.	ug/Kg	337.		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	1020	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	3510	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<337.	ug/Kg	337.		
4-METHYLPHENOL	<337.	ug/Kg	337.		
2-METHYLPHENOL	<337.	ug/Kg	337.		
BENZYL ALCOHOL	<337.	ug/Kg	337.		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<337.	ug/Kg	337.		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<337.	ug/Kg	337.		
DIBENZOFURAN	<337.	ug/Kg	337.		
SURROGATE PHENOL-D5	58.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	57.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	58.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/21/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 705

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337.	ug/Kg	337.		
1,3-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,4-DICHLOROBENZENE	1840	ug/Kg	337.		
1,2-DICHLOROBENZENE	<337.	ug/Kg	337.		
BIS(2-CHLOROISOPROPYL)ETHER	<337.	ug/Kg	337.		
N-NITROSO-DI-N-PROPYLAMINE	1820	ug/Kg	337.		
HEXACHLOROETHANE	<337.	ug/Kg	337.		
NITROBENZENE	<337.	ug/Kg	337.		
ISOPHORONE	<337.	ug/Kg	337.		
BIS(2-CHLOROETHOXY)METHANE	<337.	ug/Kg	337.		
1,2,4-TRICHLOROBENZENE	1880	ug/Kg	337.		
NAPHTHALENE	<337.	ug/Kg	337.		
HEXACHLOROBUTADIENE	<337.	ug/Kg	337.		
HEXACHLOROCYCLOPENTADIENE	<337.	ug/Kg	337.		
2-CHLORONAPHTHALENE	<337.	ug/Kg	337.		
DIMETHYLPHTHALATE	<337.	ug/Kg	337.		
ACENAPHTHYLENE	<337.	ug/Kg	337.		
ACENAPHTHENE	2040	ug/Kg	337.		
2,4-DINITROTOLUENE	1860	ug/Kg	337.		
2,6-DINITROTOLUENE	<337.	ug/Kg	337.		
DIETHYLPHTHALATE	<337.	ug/Kg	337.		
4-CHLOROPHENYL-PHENYLETHER	<337.	ug/Kg	337.		
FLUORENE	<337.	ug/Kg	337.		
N-NITROSODIPHENYLAMINE (1)	<337.	ug/Kg	337.		
4-BROMOPHENYL PHENYL ETHER	<337.	ug/Kg	337.		
HEXACHLOROBENZENE	<337.	ug/Kg	337.		
PHENANTHRENE	<337.	ug/Kg	337.		
ANTHRACENE	<337.	ug/Kg	337.		
DI-N-BUTYLPHTHALATE	<337.	ug/Kg	337.		
FLUORANTHENE	<337.	ug/Kg	337.		
PYRENE	1890	ug/Kg	337.		
BUTYLBENZYLPHTHALATE	<337.	ug/Kg	337.		
3,3'-DICHLOROBENZIDINE	<337.	ug/Kg	337.		
BENZO(A)ANTHRACENE	<337.	ug/Kg	337.		
BIS(2-ETHYLHEXYL)PHTHALATE	<337.	ug/Kg	337.		
CHRYSENE	<337.	ug/Kg	337.		
DI-N-OCTYLPHTHALATE	<337.	ug/Kg	337.		
BENZO(B)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(K)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(A)PYRENE	<337.	ug/Kg	337.		
INDENO(1,2,3-CD)PYRENE	<337.	ug/Kg	337.		
DIBENZ(A,H)ANTHRACENE	<337.	ug/Kg	337.		
BENZO(G,H,I)PERYLENE	<337.	ug/Kg	337.		
SURROGATE NITROBENZENE-D5	52.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 705

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	55.0	% Recovery			
SURROGATE TERPHENYL-D14	57.0	% Recovery			
1-CHLOROANAPHTHALENE	<337.	ug/Kg	337.	02/21/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/21/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/21/94	
BENZIDINE	<1640	ug/Kg	1640	02/21/94	

SAMPLE ID- 0156HA06(000.0)MSD
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 706
TIME SAMPLED- 1349
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
				BT 16 AT	
ACID COMPOUNDS				02/21/94	8270
PHENOL	3060	ug/Kg	337.		
2-CHLOROPHENOL	3500	ug/Kg	337.		
2-NITROPHENOL	<337.	ug/Kg	337.		
2,4-DIMETHYLPHENOL	<337.	ug/Kg	337.		
2,4-DICHLOROPHENOL	<337.	ug/Kg	337.		
4-CHLORO-3-METHYLPHENOL	3040	ug/Kg	337.		
2,4,6-TRICHLOROPHENOL	<337.	ug/Kg	337.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	462	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	3500	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<337.	ug/Kg	337.		
4-METHYLPHENOL	<337.	ug/Kg	337.		
2-METHYLPHENOL	<337.	ug/Kg	337.		
BENZYL ALCOHOL	<337.	ug/Kg	337.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<337.	ug/Kg	337.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<337.	ug/Kg	337.		
DIBENZOFURAN	<337.	ug/Kg	337.		
SURROGATE PHENOL-D5	59.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	60.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	66.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/21/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 706

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337.	ug/Kg	337.		
1,3-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,4-DICHLOROBENZENE	1490	ug/Kg	337.		
1,2-DICHLOROBENZENE	<337.	ug/Kg	337.		
BIS(2-CHLOROISOPROPYL)ETHER	<337.	ug/Kg	337.		
N-NITROSO-DI-N-PROPYLAMINE	1430	ug/Kg	337.		
HEXACHLOROETHANE	<337.	ug/Kg	337.		
NITROBENZENE	<337.	ug/Kg	337.		
ISOPHORONE	<337.	ug/Kg	337.		
BIS(2-CHLOROETHOXY)METHANE	<337.	ug/Kg	337.		
1,2,4-TRICHLOROBENZENE	1490	ug/Kg	337.		
NAPHTHALENE	<337.	ug/Kg	337.		
HEXACHLOROBUTADIENE	<337.	ug/Kg	337.		
HEXACHLOROCYCLOPENTADIENE	<337.	ug/Kg	337.		
2-CHLORONAPHTHALENE	<337.	ug/Kg	337.		
DIMETHYLPHTHALATE	<337.	ug/Kg	337.		
ACENAPHTHYLENE	<337.	ug/Kg	337.		
ACENAPHTHENE	1660	ug/Kg	337.		
2,4-DINITROTOLUENE	1600	ug/Kg	337.		
2,6-DINITROTOLUENE	<337.	ug/Kg	337.		
DIETHYLPHTHALATE	<337.	ug/Kg	337.		
4-CHLOROPHENYL-PHENYLETHER	<337.	ug/Kg	337.		
FLUORENE	<337.	ug/Kg	337.		
N-NITROSODIPHENYLAMINE (1)	<337.	ug/Kg	337.		
4-BROMOPHENYL PHENYL ETHER	<337.	ug/Kg	337.		
HEXACHLOROBENZENE	<337.	ug/Kg	337.		
PHENANTHRENE	<337.	ug/Kg	337.		
ANTHRACENE	<337.	ug/Kg	337.		
DI-N-BUTYLPHTHALATE	<337.	ug/Kg	337.		
FLUORANTHENE	<337.	ug/Kg	337.		
PYRENE	1680	ug/Kg	337.		
BUTYLBENZYLPHTHALATE	<337.	ug/Kg	337.		
3,3'-DICHLOROBENZIDINE	<337.	ug/Kg	337.		
BENZO(A)ANTHRACENE	<337.	ug/Kg	337.		
BIS(2-ETHYLHEXYL)PHTHALATE	<337.	ug/Kg	337.		
CHRYSENE	<337.	ug/Kg	337.		
DI-N-OCTYLPHTHALATE	<337.	ug/Kg	337.		
BENZO(B)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(K)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(A)PYRENE	<337.	ug/Kg	337.		
INDENO(1,2,3-CD)PYRENE	<337.	ug/Kg	337.		
DIBENZ(A,H)ANTHRACENE	<337.	ug/Kg	337.		
BENZO(G,H,I)PERYLENE	<337.	ug/Kg	337.		
SURROGATE NITROBENZENE-D5	40.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 706

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	49.0	% Recovery			
SURROGATE TERPHENYL-D14	47.0	% Recovery			
1-CHLOROANAPHTHALENE	<337.	ug/Kg	337.	02/21/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/21/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/21/94	
BENZIDINE	<1630	ug/Kg	1630	02/21/94	

SAMPLE ID- 0156HA06(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 707
TIME SAMPLED- 1357
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/21/94	8270
PHENOL	<354	ug/Kg	354		
2-CHLOROPHENOL	<354	ug/Kg	354		
2-NITROPHENOL	<354	ug/Kg	354		
2,4-DIMETHYLPHENOL	<354	ug/Kg	354		
2,4-DICHLOROPHENOL	<354	ug/Kg	354		
4-CHLORO-3-METHYLPHENOL	<354	ug/Kg	354		
2,4,6-TRICHLOROPHENOL	<354	ug/Kg	354		
2,4-DINITROPHENOL	<1710	ug/Kg	1710		
4-NITROPHENOL	<1710	ug/Kg	1710		
4,6-DINITRO-2-METHYLPHENOL	<1710	ug/Kg	1710		
PENTACHLOROPHENOL	<1710	ug/Kg	1710		
2,4,5-TRICHLOROPHENOL	<354	ug/Kg	354		
4-METHYLPHENOL	<354	ug/Kg	354		
2-METHYLPHENOL	<354	ug/Kg	354		
BENZYL ALCOHOL	<354	ug/Kg	354		
BENZOIC ACID	<1710	ug/Kg	1710		
2-METHYLNAPHTHALENE	<354	ug/Kg	354		
2-NITROANILINE	<1710	ug/Kg	1710		
3-NITROANILINE	<1710	ug/Kg	1710		
4-NITROANILINE	<1710	ug/Kg	1710		
4-CHLOROANILINE	<354	ug/Kg	354		
DIBENZOFURAN	<354	ug/Kg	354		
SURROGATE PHENOL-D5	29.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	36.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	49.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/21/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 707

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<354	ug/Kg	354		
1,3-DICHLOROBENZENE	<354	ug/Kg	354		
1,4-DICHLOROBENZENE	<354	ug/Kg	354		
1,2-DICHLOROBENZENE	<354	ug/Kg	354		
BIS(2-CHLOROISOPROPYL)ETHER	<354	ug/Kg	354		
N-NITROSO-DI-N-PROPYLAMINE	<354	ug/Kg	354		
HEXACHLOROETHANE	<354	ug/Kg	354		
NITROBENZENE	<354	ug/Kg	354		
ISOPHORONE	<354	ug/Kg	354		
BIS(2-CHLOROETHOXY)METHANE	<354	ug/Kg	354		
1,2,4-TRICHLOROBENZENE	<354	ug/Kg	354		
NAPHTHALENE	<354	ug/Kg	354		
HEXACHLOROBUTADIENE	<354	ug/Kg	354		
HEXACHLOROCYCLOPENTADIENE	<354	ug/Kg	354		
2-CHLORONAPHTHALENE	<354	ug/Kg	354		
DIMETHYLPHTHALATE	<354	ug/Kg	354		
ACENAPHTHYLENE	<354	ug/Kg	354		
ACENAPHTHENE	<354	ug/Kg	354		
2,4-DINITROTOLUENE	<354	ug/Kg	354		
2,6-DINITROTOLUENE	<354	ug/Kg	354		
DIETHYLPHTHALATE	<354	ug/Kg	354		
4-CHLOROPHENYL-PHENYLETHER	<354	ug/Kg	354		
FLUORENE	<354	ug/Kg	354		
N-NITROSODIPHENYLAMINE (1)	<354	ug/Kg	354		
4-BROMOPHENYL PHENYL ETHER	<354	ug/Kg	354		
HEXACHLOROBENZENE	<354	ug/Kg	354		
PHENANTHRENE	<354	ug/Kg	354		
ANTHRACENE	<354	ug/Kg	354		
DI-N-BUTYLPHTHALATE	<354	ug/Kg	354		
FLUORANTHENE	<354	ug/Kg	354		
PYRENE	<354	ug/Kg	354		
BUTYLBENZYLPHTHALATE	<354	ug/Kg	354		
3,3'-DICHLOROBENZIDINE	<354	ug/Kg	354		
BENZO(A)ANTHRACENE	<354	ug/Kg	354		
BIS(2-ETHYLHEXYL)PHTHALATE	<354	ug/Kg	354		
CHRYSENE	<354	ug/Kg	354		
DI-N-OCTYLPHTHALATE	<354	ug/Kg	354		
BENZO(B)FLUORANTHENE	<354	ug/Kg	354		
BENZO(K)FLUORANTHENE	<354	ug/Kg	354		
BENZO(A)PYRENE	<354	ug/Kg	354		
INDENO(1,2,3-CD)PYRENE	<354	ug/Kg	354		
DIBENZ(A,H)ANTHRACENE	<354	ug/Kg	354		
BENZO(G,H,I)PERYLENE	<354	ug/Kg	354		
SURROGATE NITROBENZENE-D5	34.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 707

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	33.0	% Recovery			
SURROGATE TERPHENYL-D14	31.0	% Recovery			
1-CHLOROANAPHTHALENE	<354	ug/Kg	354	02/21/94	
DIPHENYLAMINE	<1070	ug/Kg	1070	02/21/94	
1,2-DIPHENYLHYDRAZINE	<1710	ug/Kg	1710	02/21/94	
BENZIDINE	<1710	ug/Kg	1710	02/21/94	

SAMPLE ID- 0156HA06(004.0)

SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/21/94	8270
PHENOL	<337.	ug/Kg	337.		
2-CHLOROPHENOL	<337.	ug/Kg	337.		
2-NITROPHENOL	<337.	ug/Kg	337.		
2,4-DIMETHYLPHENOL	<337.	ug/Kg	337.		
2,4-DICHLOROPHENOL	<337.	ug/Kg	337.		
4-CHLORO-3-METHYLPHENOL	<337.	ug/Kg	337.		
2,4,6-TRICHLOROPHENOL	<337.	ug/Kg	337.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<337.	ug/Kg	337.		
4-METHYLPHENOL	<337.	ug/Kg	337.		
2-METHYLPHENOL	<337.	ug/Kg	337.		
BENZYL ALCOHOL	<337.	ug/Kg	337.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<337.	ug/Kg	337.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<337.	ug/Kg	337.		
DIBENZOFURAN	<337.	ug/Kg	337.		
SURROGATE PHENOL-D5	24.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	28.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	21.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/21/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 708

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337.	ug/Kg	337.		
1,3-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,4-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,2-DICHLOROBENZENE	<337.	ug/Kg	337.		
BIS(2-CHLOROISOPROPYL)ETHER	<337.	ug/Kg	337.		
N-NITROSO-DI-N-PROPYLAMINE	<337.	ug/Kg	337.		
HEXACHLOROETHANE	<337.	ug/Kg	337.		
NITROBENZENE	<337.	ug/Kg	337.		
ISOPHORONE	<337.	ug/Kg	337.		
BIS(2-CHLOROETHOXY)METHANE	<337.	ug/Kg	337.		
1,2,4-TRICHLOROBENZENE	<337.	ug/Kg	337.		
NAPHTHALENE	<337.	ug/Kg	337.		
HEXACHLOROBUTADIENE	<337.	ug/Kg	337.		
HEXACHLOROCYCLOPENTADIENE	<337.	ug/Kg	337.		
2-CHLORONAPHTHALENE	<337.	ug/Kg	337.		
DIMETHYLPHTHALATE	<337.	ug/Kg	337.		
ACENAPHTHYLENE	<337.	ug/Kg	337.		
ACENAPHTHENE	<337.	ug/Kg	337.		
2,4-DINITROTOLUENE	<337.	ug/Kg	337.		
2,6-DINITROTOLUENE	<337.	ug/Kg	337.		
DIETHYLPHTHALATE	<337.	ug/Kg	337.		
4-CHLOROPHENYL-PHENYLETHER	<337.	ug/Kg	337.		
FLUORENE	<337.	ug/Kg	337.		
N-NITROSODIPHENYLAMINE (1)	<337.	ug/Kg	337.		
4-BROMOPHENYL PHENYL ETHER	<337.	ug/Kg	337.		
HEXACHLOROBENZENE	<337.	ug/Kg	337.		
PHENANTHRENE	<337.	ug/Kg	337.		
ANTHRACENE	<337.	ug/Kg	337.		
DI-N-BUTYLPHTHALATE	<337.	ug/Kg	337.		
FLUORANTHENE	<337.	ug/Kg	337.		
PYRENE	<337.	ug/Kg	337.		
BUTYLBENZYLPHTHALATE	<337.	ug/Kg	337.		
3,3'-DICHLOROBENZIDINE	<337.	ug/Kg	337.		
BENZO(A)ANTHRACENE	<337.	ug/Kg	337.		
BIS(2-ETHYLHEXYL)PHTHALATE	<337.	ug/Kg	337.		
CHRYSENE	<337.	ug/Kg	337.		
DI-N-OCTYLPHTHALATE	<337.	ug/Kg	337.		
BENZO(B)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(K)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(A)PYRENE	<337.	ug/Kg	337.		
INDENO(1,2,3-CD)PYRENE	<337.	ug/Kg	337.		
DIBENZ(A,H)ANTHRACENE	<337.	ug/Kg	337.		
BENZO(G,H,I)PERYLENE	<337.	ug/Kg	337.		
SURROGATE NITROBENZENE-D5	23.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 708

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	25.0	% Recovery			
SURROGATE TERPHENYL-D14	28.0	% Recovery			
1-CHLOROANAPHTHALENE	<337.	ug/Kg	337.	02/21/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/21/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/21/94	
BENZIDINE	<1630	ug/Kg	1630	02/21/94	

SAMPLE ID- 0156HA08(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 709
TIME SAMPLED- 1050
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/21/94	8270
PHENOL	<340.	ug/Kg	340.		
2-CHLOROPHENOL	<340.	ug/Kg	340.		
2-NITROPHENOL	<340.	ug/Kg	340.		
2,4-DIMETHYLPHENOL	<340.	ug/Kg	340.		
2,4-DICHLOROPHENOL	<340.	ug/Kg	340.		
4-CHLORO-3-METHYLPHENOL	<340.	ug/Kg	340.		
2,4,6-TRICHLOROPHENOL	<340.	ug/Kg	340.		
2,4-DINITROPHENOL	<1650	ug/Kg	1650		
4-NITROPHENOL	<1650	ug/Kg	1650		
4,6-DINITRO-2-METHYLPHENOL	<1650	ug/Kg	1650		
PENTACHLOROPHENOL	<1650	ug/Kg	1650		
2,4,5-TRICHLOROPHENOL	<340.	ug/Kg	340.		
4-METHYLPHENOL	<340.	ug/Kg	340.		
2-METHYLPHENOL	<340.	ug/Kg	340.		
BENZYL ALCOHOL	<340.	ug/Kg	340.		
BENZOIC ACID	<1650	ug/Kg	1650		
2-METHYLNAPHTHALENE	<340.	ug/Kg	340.		
2-NITROANILINE	<1650	ug/Kg	1650		
3-NITROANILINE	<1650	ug/Kg	1650		
4-NITROANILINE	<1650	ug/Kg	1650		
4-CHLOROANILINE	<340.	ug/Kg	340.		
DIBENZOFURAN	<340.	ug/Kg	340.		
SURROGATE PHENOL-D5	54.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	60.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	54.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/21/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 709

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<340.	ug/Kg	340.		
1,3-DICHLOROBENZENE	<340.	ug/Kg	340.		
1,4-DICHLOROBENZENE	<340.	ug/Kg	340.		
1,2-DICHLOROBENZENE	<340.	ug/Kg	340.		
BIS(2-CHLOROISOPROPYL)ETHER	<340.	ug/Kg	340.		
N-NITROSO-DI-N-PROPYLAMINE	<340.	ug/Kg	340.		
HEXACHLOROETHANE	<340.	ug/Kg	340.		
NITROBENZENE	<340.	ug/Kg	340.		
ISOPHORONE	<340.	ug/Kg	340.		
BIS(2-CHLOROETHOXY)METHANE	<340.	ug/Kg	340.		
1,2,4-TRICHLOROBENZENE	<340.	ug/Kg	340.		
NAPHTHALENE	<340.	ug/Kg	340.		
HEXACHLOROBUTADIENE	<340.	ug/Kg	340.		
HEXACHLOROCYCLOPENTADIENE	<340.	ug/Kg	340.		
2-CHLORONAPHTHALENE	<340.	ug/Kg	340.		
DIMETHYLPHTHALATE	<340.	ug/Kg	340.		
ACENAPHTHYLENE	<340.	ug/Kg	340.		
ACENAPHTHENE	<340.	ug/Kg	340.		
2,4-DINITROTOLUENE	<340.	ug/Kg	340.		
2,6-DINITROTOLUENE	<340.	ug/Kg	340.		
DIETHYLPHTHALATE	<340.	ug/Kg	340.		
4-CHLOROPHENYL-PHENYLETHER	<340.	ug/Kg	340.		
FLUORENE	<340.	ug/Kg	340.		
N-NITROSODIPHENYLAMINE (1)	<340.	ug/Kg	340.		
4-BROMOPHENYL PHENYL ETHER	<340.	ug/Kg	340.		
HEXACHLOROBENZENE	<340.	ug/Kg	340.		
PHENANTHRENE	<340.	ug/Kg	340.		
ANTHRACENE	<340.	ug/Kg	340.		
DI-N-BUTYLPHTHALATE	<340.	ug/Kg	340.		
FLUORANTHENE	<340.	ug/Kg	340.		
PYRENE	<340.	ug/Kg	340.		
BUTYLBENZYLPHTHALATE	<340.	ug/Kg	340.		
3,3'-DICHLOROBENZIDINE	<340.	ug/Kg	340.		
BENZO(A)ANTHRACENE	<340.	ug/Kg	340.		
BIS(2-ETHYLHEXYL)PHTHALATE	<340.	ug/Kg	340.		
CHRYSENE	<340.	ug/Kg	340.		
DI-N-OCTYLPHTHALATE	<340.	ug/Kg	340.		
BENZO(B)FLUORANTHENE	<340.	ug/Kg	340.		
BENZO(K)FLUORANTHENE	<340.	ug/Kg	340.		
BENZO(A)PYRENE	<340.	ug/Kg	340.		
INDENO(1,2,3-CD)PYRENE	<340.	ug/Kg	340.		
DIBENZ(A,H)ANTHRACENE	<340.	ug/Kg	340.		
BENZO(G,H,I)PERYLENE	<340.	ug/Kg	340.		
SURROGATE NITROBENZENE-D5	48.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 709

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	49.0	% Recovery			
SURROGATE TERPHENYL-D14	54.0	% Recovery			
1-CHLOROANAPHTHALENE	<340.	ug/Kg	340.	02/21/94	
DIPHENYLAMINE	<1030	ug/Kg	1030	02/21/94	
1,2-DIPHENYLHYDRAZINE	<1650	ug/Kg	1650	02/21/94	
BENZIDINE	<1650	ug/Kg	1650	02/21/94	

SAMPLE ID- 0156HA08(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 710
TIME SAMPLED- 1055
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/21/94	8270
PHENOL	<337.	ug/Kg	337.		
2-CHLOROPHENOL	<337.	ug/Kg	337.		
2-NITROPHENOL	<337.	ug/Kg	337.		
2,4-DIMETHYLPHENOL	<337.	ug/Kg	337.		
2,4-DICHLOROPHENOL	<337.	ug/Kg	337.		
4-CHLORO-3-METHYLPHENOL	<337.	ug/Kg	337.		
2,4,6-TRICHLOROPHENOL	<337.	ug/Kg	337.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<337.	ug/Kg	337.		
4-METHYLPHENOL	<337.	ug/Kg	337.		
2-METHYLPHENOL	<337.	ug/Kg	337.		
BENZYL ALCOHOL	<337.	ug/Kg	337.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<337.	ug/Kg	337.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<337.	ug/Kg	337.		
DIBENZOFURAN	<337.	ug/Kg	337.		
SURROGATE PHENOL-D5	58.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	63.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	51.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/21/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 710

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337.	ug/Kg	337.		
1,3-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,4-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,2-DICHLOROBENZENE	<337.	ug/Kg	337.		
BIS(2-CHLOROISOPROPYL)ETHER	<337.	ug/Kg	337.		
N-NITROSO-DI-N-PROPYLAMINE	<337.	ug/Kg	337.		
HEXACHLOROETHANE	<337.	ug/Kg	337.		
NITROBENZENE	<337.	ug/Kg	337.		
ISOPHORONE	<337.	ug/Kg	337.		
BIS(2-CHLOROETHOXY)METHANE	<337.	ug/Kg	337.		
1,2,4-TRICHLOROBENZENE	<337.	ug/Kg	337.		
NAPHTHALENE	<337.	ug/Kg	337.		
HEXACHLOROBUTADIENE	<337.	ug/Kg	337.		
HEXACHLOROCYCLOPENTADIENE	<337.	ug/Kg	337.		
2-CHLORONAPHTHALENE	<337.	ug/Kg	337.		
DIMETHYLPHTHALATE	<337.	ug/Kg	337.		
ACENAPHTHYLENE	<337.	ug/Kg	337.		
ACENAPHTHENE	<337.	ug/Kg	337.		
2,4-DINITROTOLUENE	<337.	ug/Kg	337.		
2,6-DINITROTOLUENE	<337.	ug/Kg	337.		
DIETHYLPHTHALATE	<337.	ug/Kg	337.		
4-CHLOROPHENYL-PHENYLETHER	<337.	ug/Kg	337.		
FLUORENE	<337.	ug/Kg	337.		
N-NITROSODIPHENYLAMINE (1)	<337.	ug/Kg	337.		
4-BROMOPHENYL PHENYL ETHER	<337.	ug/Kg	337.		
HEXACHLOROBENZENE	<337.	ug/Kg	337.		
PHENANTHRENE	<337.	ug/Kg	337.		
ANTHRACENE	<337.	ug/Kg	337.		
DI-N-BUTYLPHTHALATE	<337.	ug/Kg	337.		
FLUORANTHENE	<337.	ug/Kg	337.		
PYRENE	<337.	ug/Kg	337.		
BUTYLBENZYLPHTHALATE	<337.	ug/Kg	337.		
3,3'-DICHLOROBENZIDINE	<337.	ug/Kg	337.		
BENZO(A)ANTHRACENE	<337.	ug/Kg	337.		
BIS(2-ETHYLHEXYL)PHTHALATE	<337.	ug/Kg	337.		
CHRYSENE	<337.	ug/Kg	337.		
DI-N-OCTYLPHTHALATE	<337.	ug/Kg	337.		
BENZO(B)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(K)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(A)PYRENE	<337.	ug/Kg	337.		
INDENO(1,2,3-CD)PYRENE	<337.	ug/Kg	337.		
DIBENZ(A,H)ANTHRACENE	<337.	ug/Kg	337.		
BENZO(G,H,I)PERYLENE	<337.	ug/Kg	337.		
SURROGATE NITROBENZENE-D5	37.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 710

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	46.0	% Recovery			
SURROGATE TERPHENYL-D14	55.0	% Recovery			
1-CHLOROANAPHTHALENE	<337.	ug/Kg	337.	02/21/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/21/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/21/94	
BENZIDINE	<1630	ug/Kg	1630	02/21/94	

SAMPLE ID- 2730MW02(WATER)

SAMPLE NUMBER- 717
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/12/94
TIME SAMPLED- 1440
DATE RECEIVED- 01/13/94

TIME RECEIVED- 0945
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS					02/19/94	8270
PHENOL	<	10	ug/L	10		
2-CHLOROPHENOL	<	10	ug/L	10		
2-NITROPHENOL	<	10	ug/L	10		
2,4-DIMETHYLPHENOL	<	10	ug/L	10		
2,4-DICHLOROPHENOL	<	10	ug/L	10		
4-CHLORO-3-METHYLPHENOL	<	20	ug/L	20		
2,4,6-TRICHLOROPHENOL	<	10	ug/L	10		
2,4-DINITROPHENOL	<	50	ug/L	50		
4-NITROPHENOL	<	50	ug/L	50		
4,6-DINITRO-2-METHYLPHENOL	<	50	ug/L	50		
PENTACHLOROPHENOL	<	50	ug/L	50		
2,4,5-TRICHLOROPHENOL	<	10	ug/L	10		
4-METHYLPHENOL	<	10	ug/L	10		
2-METHYLPHENOL	<	10	ug/L	10		
BENZYL ALCOHOL	<	10	ug/L	10		
BENZOIC ACID	<	50	ug/L	50		
2-METHYLNAPHTHALENE	<	10	ug/L	10		
2-NITROANILINE	<	50	ug/L	50		
3-NITROANILINE	<	50	ug/L	50		
4-NITROANILINE	<	50	ug/L	50		
4-CHLOROANILINE	<	10	ug/L	10		
DIBENZOFURAN	<	10	ug/L	10		
SURROGATE PHENOL-D5		45.0	% Recovery			
SURROGATE 2-FLUOROPHENOL		66.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL		92.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/19/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 672

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ENDOSULFAN I	<	0.14	ug/L	0.14		
ENDOSULFAN II	<	0.04	ug/L	0.04		
ENDOSULFAN SULFATE	<	0.66	ug/L	0.66		
ENDRIN	<	0.06	ug/L	0.06		
ENDRIN ALDEHYDE	<	0.23	ug/L	0.23		
HEPTACHLOR	<	0.03	ug/L	0.03		
HEPTACHLOR EPOXIDE	<	0.83	ug/L	0.83		
METHOXYCHLOR	<	1.76	ug/L	1.76		
TOXAPHENE	<	2.4	ug/L	2.4		
AROCHLOR-1016	<	1	ug/L	1		
AROCHLOR-1221	<	1	ug/L	1		
AROCHLOR-1232	<	1	ug/L	1		
AROCHLOR-1242	<	1	ug/L	1		
AROCHLOR-1248	<	1	ug/L	1		
AROCHLOR-1254	<	1	ug/L	1		
AROCHLOR-1260	<	1	ug/L	1		
SURROGATE DIBUTYLCHLOROINDATE		65.0	% Recovery			

SAMPLE ID- 0156HA02(000.0)
SAMPLE NUMBER- 678
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1004
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/16/94	8080
ALDRIN	<2.76	ug/Kg	2.76		
ALPHA-BHC	<2.07	ug/Kg	2.07		
BETA-BHC	<4.14	ug/Kg	4.14		
DELTA-BHC	<6.21	ug/Kg	6.21		
GAMMA-BHC	<2.76	ug/Kg	2.76		
CHLORDANE	<9.66	ug/Kg	9.66		
4,4'-DDD	<7.59	ug/Kg	7.59		
4,4'-DDE	<2.76	ug/Kg	2.76		
4,4'DDT	<8.28	ug/Kg	8.28		
DIELDRIN	<1.38	ug/Kg	1.38		
ENDOSULFAN I	<9.66	ug/Kg	9.66		
ENDOSULFAN II	<2.76	ug/Kg	2.76		
ENDOSULFAN SULFATE	<45.5	ug/Kg	45.5		
ENDRIN	<4.14	ug/Kg	4.14		
ENDRIN ALDEHYDE	<15.9	ug/Kg	15.9		

CONTINUATION OF DATA FOR SAMPLE NUMBER 678

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
HEPTACHLOR	<2.07	ug/Kg	2.07		
HEPTACHLOR EPOXIDE	<57.3	ug/Kg	57.3		
METHOXYCHLOR	<121.	ug/Kg	121.		
TOXAPHENE	<166	ug/Kg	166		
AROCHLOR-1016	<163	ug/Kg	163		
AROCHLOR-1221	<163	ug/Kg	163		
AROCHLOR-1232	<163	ug/Kg	163		
AROCHLOR-1242	<163	ug/Kg	163		
AROCHLOR-1248	<163	ug/Kg	163		
AROCHLOR-1254	<163	ug/Kg	163		
AROCHLOR-1260	<163	ug/Kg	163		
SURROGATE DIBUTYLCHLOROINDATE	82.0	% Recovery			

SAMPLE ID- 0156HA02(002.0)
SAMPLE NUMBER- 679
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1014
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/16/94	8080
ALDRIN	<2.74	ug/Kg	2.74		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.16	ug/Kg	6.16		
GAMMA-BHC	<2.74	ug/Kg	2.74		
CHLORDANE	<9.59	ug/Kg	9.59		
4,4'-DDD	<7.54	ug/Kg	7.54		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	<8.22	ug/Kg	8.22		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.59	ug/Kg	9.59		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.2	ug/Kg	45.2		
ENDRIN	<4.11	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		
HEPTACHLOR	<2.06	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<56.9	ug/Kg	56.9		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<162	ug/Kg	162		

CONTINUATION OF DATA FOR SAMPLE NUMBER 679

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1221	<162	ug/Kg	162		
AROCHLOR-1232	<162	ug/Kg	162		
AROCHLOR-1242	<162	ug/Kg	162		
AROCHLOR-1248	<162	ug/Kg	162		
AROCHLOR-1254	<162	ug/Kg	162		
AROCHLOR-1260	<162	ug/Kg	162		
SURROGATE DIBUTYLCHLOROINDATE	123	% Recovery			

SAMPLE ID- 0156HA03(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 680
TIME SAMPLED- 1028
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/16/94	8080
ALDRIN	<2.89	ug/Kg	2.89		
ALPHA-BHC	<2.17	ug/Kg	2.17		
BETA-BHC	<4.34	ug/Kg	4.34		
DELTA-BHC	<6.50	ug/Kg	6.50		
GAMMA-BHC	<2.89	ug/Kg	2.89		
CHLORDANE	<10.1	ug/Kg	10.1		
4,4'-DDD	<7.95	ug/Kg	7.95		
4,4'-DDE	<2.89	ug/Kg	2.89		
4,4'DDT	<8.67	ug/Kg	8.67		
DIELDRIN	<1.44	ug/Kg	1.44		
ENDOSULFAN I	<10.1	ug/Kg	10.1		
ENDOSULFAN II	<2.89	ug/Kg	2.89		
ENDOSULFAN SULFATE	<47.7	ug/Kg	47.7		
ENDRIN	<4.34	ug/Kg	4.34		
ENDRIN ALDEHYDE	<16.6	ug/Kg	16.6		
HEPTACHLOR	<2.17	ug/Kg	2.17		
HEPTACHLOR EPOXIDE	<60.0	ug/Kg	60.0		
METHOXYCHLOR	<127.	ug/Kg	127.		
TOXAPHENE	<173.	ug/Kg	173.		
AROCHLOR-1016	<170.	ug/Kg	170.		
AROCHLOR-1221	<170.	ug/Kg	170.		
AROCHLOR-1232	<170.	ug/Kg	170.		
AROCHLOR-1242	<170.	ug/Kg	170.		
AROCHLOR-1248	<170.	ug/Kg	170.		
AROCHLOR-1254	<170.	ug/Kg	170.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1260	<170.	ug/Kg	170.		
SURROGATE DIBUTYLCHLOROINDATE	122	% Recovery			

SAMPLE ID- 0156HA04(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 681
TIME SAMPLED- 1025
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/16/94	8080
ALDRIN	<2.72	ug/Kg	2.72		
ALPHA-BHC	<2.04	ug/Kg	2.04		
BETA-BHC	<4.08	ug/Kg	4.08		
DELTA-BHC	<6.12	ug/Kg	6.12		
GAMMA-BHC	<2.72	ug/Kg	2.72		
CHLORDANE	<9.51	ug/Kg	9.51		
4,4'-DDD	<7.47	ug/Kg	7.47		
4,4'-DDE	<2.72	ug/Kg	2.72		
4,4'DDT	<8.15	ug/Kg	8.15		
DIELDRIN	<1.36	ug/Kg	1.36		
ENDOSULFAN I	<9.51	ug/Kg	9.51		
ENDOSULFAN II	<2.72	ug/Kg	2.72		
ENDOSULFAN SULFATE	<44.8	ug/Kg	44.8		
ENDRIN	<4.08	ug/Kg	4.08		
ENDRIN ALDEHYDE	<15.6	ug/Kg	15.6		
HEPTACHLOR	<2.04	ug/Kg	2.04		
HEPTACHLOR EPOXIDE	<56.4	ug/Kg	56.4		
METHOXYCHLOR	<120	ug/Kg	120		
TOXAPHENE	<163.	ug/Kg	163.		
AROCHLOR-1016	<160.	ug/Kg	160.		
AROCHLOR-1221	<160.	ug/Kg	160.		
AROCHLOR-1232	<160.	ug/Kg	160.		
AROCHLOR-1242	<160.	ug/Kg	160.		
AROCHLOR-1248	<160.	ug/Kg	160.		
AROCHLOR-1254	<160.	ug/Kg	160.		
AROCHLOR-1260	<160.	ug/Kg	160.		
SURROGATE DIBUTYLCHLOROINDATE	109	% Recovery			

SAMPLE ID- 0156HA03(000.0)
SAMPLE NUMBER- 682
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1026
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/17/94	8080
ALDRIN	<2.83	ug/Kg	2.83		
ALPHA-BHC	<2.12	ug/Kg	2.12		
BETA-BHC	<4.24	ug/Kg	4.24		
DELTA-BHC	<6.36	ug/Kg	6.36		
GAMMA-BHC	<2.83	ug/Kg	2.83		
CHLORDANE	<9.89	ug/Kg	9.89		
4,4'-DDD	<7.77	ug/Kg	7.77		
4,4'-DDE	4.70	ug/Kg	2.83		
4,4'DDT	<8.48	ug/Kg	8.48		
DIELDRIN	<1.41	ug/Kg	1.41		
ENDOSULFAN I	<9.89	ug/Kg	9.89		
ENDOSULFAN II	<2.83	ug/Kg	2.83		
ENDOSULFAN SULFATE	<46.6	ug/Kg	46.6		
ENDRIN	<4.24	ug/Kg	4.24		
ENDRIN ALDEHYDE	<16.2	ug/Kg	16.2		
HEPTACHLOR	<2.12	ug/Kg	2.12		
HEPTACHLOR EPOXIDE	<58.7	ug/Kg	58.7		
METHOXYCHLOR	<124.	ug/Kg	124.		
TOXAPHENE	<170	ug/Kg	170		
AROCHLOR-1016	<167	ug/Kg	167		
AROCHLOR-1221	<167	ug/Kg	167		
AROCHLOR-1232	<167	ug/Kg	167		
AROCHLOR-1242	<167	ug/Kg	167		
AROCHLOR-1248	<167	ug/Kg	167		
AROCHLOR-1254	<167	ug/Kg	167		
AROCHLOR-1260	<167	ug/Kg	167		
SURROGATE DIBUTYLCHLOROINDATE	82.0	% Recovery			

SAMPLE ID- 0156HA04(000.0)
SAMPLE NUMBER- 683
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1021
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/17/94	8080

CONTINUATION OF DATA FOR SAMPLE NUMBER 683

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ALDRIN	<2.78	ug/Kg	2.78		
ALPHA-BHC	<2.08	ug/Kg	2.08		
BETA-BHC	<4.17	ug/Kg	4.17		
DELTA-BHC	<6.26	ug/Kg	6.26		
GAMMA-BHC	<2.78	ug/Kg	2.78		
CHLORDANE	<9.73	ug/Kg	9.73		
4,4'-DDD	<7.64	ug/Kg	7.64		
4,4'-DDE	<2.78	ug/Kg	2.78		
4,4'DDT	<8.34	ug/Kg	8.34		
DIELDRIN	<1.39	ug/Kg	1.39		
ENDOSULFAN I	<9.73	ug/Kg	9.73		
ENDOSULFAN II	<2.78	ug/Kg	2.78		
ENDOSULFAN SULFATE	<45.9	ug/Kg	45.9		
ENDRIN	<4.17	ug/Kg	4.17		
ENDRIN ALDEHYDE	<16.0	ug/Kg	16.0		
HEPTACHLOR	<2.08	ug/Kg	2.08		
HEPTACHLOR EPOXIDE	<57.7	ug/Kg	57.7		
METHOXYCHLOR	<122.	ug/Kg	122.		
TOXAPHENE	<167	ug/Kg	167		
AROCHLOR-1016	<164	ug/Kg	164		
AROCHLOR-1221	<164	ug/Kg	164		
AROCHLOR-1232	<164	ug/Kg	164		
AROCHLOR-1242	<164	ug/Kg	164		
AROCHLOR-1248	<164	ug/Kg	164		
AROCHLOR-1254	<164	ug/Kg	164		
AROCHLOR-1260	<164	ug/Kg	164		
SURROGATE DIBUTYLCHLOROINDATE	76.0	% Recovery			

SAMPLE ID- 0156HA07(000.0)
SAMPLE NUMBER- 684
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1051
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/17/94	8080
ALDRIN	<2.78	ug/Kg	2.78		
ALPHA-BHC	<2.08	ug/Kg	2.08		
BETA-BHC	<4.17	ug/Kg	4.17		
DELTA-BHC	<6.26	ug/Kg	6.26		
GAMMA-BHC	<2.78	ug/Kg	2.78		

CONTINUATION OF DATA FOR SAMPLE NUMBER 684

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORDANE	<9.73	ug/Kg	9.73		
4,4'-DDD	<7.64	ug/Kg	7.64		
4,4'-DDE	<2.78	ug/Kg	2.78		
4,4'DDT	<8.34	ug/Kg	8.34		
DIELDRIN	<1.39	ug/Kg	1.39		
ENDOSULFAN I	<9.73	ug/Kg	9.73		
ENDOSULFAN II	<2.78	ug/Kg	2.78		
ENDOSULFAN SULFATE	<45.9	ug/Kg	45.9		
ENDRIN	<4.17	ug/Kg	4.17		
ENDRIN ALDEHYDE	<16.0	ug/Kg	16.0		
HEPTACHLOR	<2.08	ug/Kg	2.08		
HEPTACHLOR EPOXIDE	<57.7	ug/Kg	57.7		
METHOXYCHLOR	<122.	ug/Kg	122.		
TOXAPHENE	<167	ug/Kg	167		
AROCHLOR-1016	<164	ug/Kg	164		
AROCHLOR-1221	<164	ug/Kg	164		
AROCHLOR-1232	<164	ug/Kg	164		
AROCHLOR-1242	<164	ug/Kg	164		
AROCHLOR-1248	<164	ug/Kg	164		
AROCHLOR-1254	<164	ug/Kg	164		
AROCHLOR-1260	<164	ug/Kg	164		
SURROGATE DIBUTYLCHLOROINDATE	75.0	% Recovery			

SAMPLE ID- 0156HA07(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 685
TIME SAMPLED- 1053
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/17/94	8080
ALDRIN	<2.75	ug/Kg	2.75		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.12	ug/Kg	4.12		
DELTA-BHC	<6.18	ug/Kg	6.18		
GAMMA-BHC	<2.75	ug/Kg	2.75		
CHLORDANE	<9.62	ug/Kg	9.62		
4,4'-DDD	<7.56	ug/Kg	7.56		
4,4'-DDE	<2.75	ug/Kg	2.75		
4,4'DDT	<8.25	ug/Kg	8.25		
DIELDRIN	<1.37	ug/Kg	1.37		

CONTINUATION OF DATA FOR SAMPLE NUMBER 685

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ENDOSULFAN I	<9.62	ug/Kg	9.62		
ENDOSULFAN II	<2.75	ug/Kg	2.75		
ENDOSULFAN SULFATE	<45.4	ug/Kg	45.4		
ENDRIN	<4.12	ug/Kg	4.12		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		
HEPTACHLOR	<2.06	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<57.0	ug/Kg	57.0		
METHOXYCHLOR	<121	ug/Kg	121		
TOXAPHENE	<165	ug/Kg	165		
AROCHLOR-1016	<162.	ug/Kg	162.		
AROCHLOR-1221	<162.	ug/Kg	162.		
AROCHLOR-1232	<162.	ug/Kg	162.		
AROCHLOR-1242	<162.	ug/Kg	162.		
AROCHLOR-1248	<162.	ug/Kg	162.		
AROCHLOR-1254	<162.	ug/Kg	162.		
AROCHLOR-1260	<162.	ug/Kg	162.		
SURROGATE DIBUTYLCHLOROINDATE	88.0	% Recovery			

SAMPLE ID- 0156HA07(004.0)
SAMPLE NUMBER- 686
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1123
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/17/94	8080
ALDRIN	<2.74	ug/Kg	2.74		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.16	ug/Kg	6.16		
GAMMA-BHC	<2.74	ug/Kg	2.74		
CHLORDANE	<9.58	ug/Kg	9.58		
4,4'-DDD	<7.53	ug/Kg	7.53		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	<8.21	ug/Kg	8.21		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.58	ug/Kg	9.58		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.2	ug/Kg	45.2		
ENDRIN	<4.11	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		

CONTINUATION OF DATA FOR SAMPLE NUMBER 686

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.8	ug/Kg	56.8		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	85.0	% Recovery			

SAMPLE ID- 0156HA08(003.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 689
TIME SAMPLED- 1222
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/17/94	8080
ALDRIN	<2.72	ug/Kg	2.72		
ALPHA-BHC	<2.04	ug/Kg	2.04		
BETA-BHC	<4.08	ug/Kg	4.08		
DELTA-BHC	<6.13	ug/Kg	6.13		
GAMMA-BHC	<2.72	ug/Kg	2.72		
CHLORDANE	<9.53	ug/Kg	9.53		
4,4'-DDD	<7.49	ug/Kg	7.49		
4,4'-DDE	<2.72	ug/Kg	2.72		
4,4'DDT	<8.17	ug/Kg	8.17		
DIELDRIN	<1.36	ug/Kg	1.36		
ENDOSULFAN I	<9.53	ug/Kg	9.53		
ENDOSULFAN II	<2.72	ug/Kg	2.72		
ENDOSULFAN SULFATE	<44.9	ug/Kg	44.9		
ENDRIN	<4.08	ug/Kg	4.08		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.04	ug/Kg	2.04		
HEPTACHLOR EPOXIDE	<56.5	ug/Kg	56.5		
METHOXYCHLOR	<120	ug/Kg	120		
TOXAPHENE	<163.	ug/Kg	163.		
AROCHLOR-1016	<160.	ug/Kg	160.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 689

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1221	<160.	ug/Kg	160.		
AROCHLOR-1232	<160.	ug/Kg	160.		
AROCHLOR-1242	<160.	ug/Kg	160.		
AROCHLOR-1248	<160.	ug/Kg	160.		
AROCHLOR-1254	<160.	ug/Kg	160.		
AROCHLOR-1260	<160.	ug/Kg	160.		
SURROGATE DIBUTYLCHLOROINDATE	139	% Recovery			

SAMPLE ID- 0156HA09(000.0)

SAMPLE NUMBER- 690
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1150
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/18/94	8080
ALDRIN	<2.73	ug/Kg	2.73		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.09	ug/Kg	4.09		
DELTA-BHC	<6.14	ug/Kg	6.14		
GAMMA-BHC	<2.73	ug/Kg	2.73		
CHLORDANE	<9.55	ug/Kg	9.55		
4,4'-DDD	<7.50	ug/Kg	7.50		
4,4'-DDE	2.95	ug/Kg	2.73		
4,4'DDT	<8.19	ug/Kg	8.19		
DIELDRIN	<1.36	ug/Kg	1.36		
ENDOSULFAN I	<9.55	ug/Kg	9.55		
ENDOSULFAN II	<2.73	ug/Kg	2.73		
ENDOSULFAN SULFATE	<45.0	ug/Kg	45.0		
ENDRIN	<4.09	ug/Kg	4.09		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.6	ug/Kg	56.6		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164	ug/Kg	164		
AROCHLOR-1016	<161	ug/Kg	161		
AROCHLOR-1221	<161	ug/Kg	161		
AROCHLOR-1232	<161	ug/Kg	161		
AROCHLOR-1242	<161	ug/Kg	161		
AROCHLOR-1248	<161	ug/Kg	161		
AROCHLOR-1254	<161	ug/Kg	161		

CONTINUATION OF DATA FOR SAMPLE NUMBER 690

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1260	<161	ug/Kg	161		
SURROGATE DIBUTYLCHLOROINDATE	66.0	% Recovery			

SAMPLE ID- 0156HA09(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 691
TIME SAMPLED- 1155
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/25/94	8080
ALDRIN	<2.75	ug/Kg	2.75		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.13	ug/Kg	4.13		
DELTA-BHC	<6.20	ug/Kg	6.20		
GAMMA-BHC	<2.75	ug/Kg	2.75		
CHLORDANE	<9.64	ug/Kg	9.64		
4,4'-DDD	<7.57	ug/Kg	7.57		
4,4'-DDE	<2.75	ug/Kg	2.75		
4,4'DDT	<8.26	ug/Kg	8.26		
DIELDRIN	<1.38	ug/Kg	1.38		
ENDOSULFAN I	<9.64	ug/Kg	9.64		
ENDOSULFAN II	<2.75	ug/Kg	2.75		
ENDOSULFAN SULFATE	<45.4	ug/Kg	45.4		
ENDRIN	<4.13	ug/Kg	4.13		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		
HEPTACHLOR	<2.06	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<57.2	ug/Kg	57.2		
METHOXYCHLOR	<121.	ug/Kg	121.		
TOXAPHENE	<165.	ug/Kg	165.		
AROCHLOR-1016	<162.	ug/Kg	162.		
AROCHLOR-1221	<162.	ug/Kg	162.		
AROCHLOR-1232	<162.	ug/Kg	162.		
AROCHLOR-1242	<162.	ug/Kg	162.		
AROCHLOR-1248	<162.	ug/Kg	162.		
AROCHLOR-1254	<162.	ug/Kg	162.		
AROCHLOR-1260	<162.	ug/Kg	162.		
SURROGATE ~~DIBUTYLCHLOROINDATE~~ DCB	60.0	% Recovery			

65

SAMPLE ID- 0156HA09(002.0)QC
SAMPLE NUMBER- 692
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/25/94	8080
ALDRIN	<2.74	ug/Kg	2.74		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.17	ug/Kg	6.17		
GAMMA-BHC	<2.74	ug/Kg	2.74		
CHLORDANE	<9.60	ug/Kg	9.60		
4,4'-DDD	<7.54	ug/Kg	7.54		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	<8.23	ug/Kg	8.23		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.60	ug/Kg	9.60		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.3	ug/Kg	45.3		
ENDRIN	<4.11	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		
HEPTACHLOR	<2.06	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<56.9	ug/Kg	56.9		
METHOXYCHLOR	<121	ug/Kg	121		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<162	ug/Kg	162		
AROCHLOR-1221	<162	ug/Kg	162		
AROCHLOR-1232	<162	ug/Kg	162		
AROCHLOR-1242	<162	ug/Kg	162		
AROCHLOR-1248	<162	ug/Kg	162		
AROCHLOR-1254	<162	ug/Kg	162		
AROCHLOR-1260	<162	ug/Kg	162		
SURROGATE ~~DIBUTYLCHLOROINDATE~~ DCB	93.0	% Recovery			

SAMPLE ID- 0156HA09(004.0)
SAMPLE NUMBER- 693
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1204
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/21/94	8080

CONTINUATION OF DATA FOR SAMPLE NUMBER 693

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ALDRIN	<2.72	ug/Kg	2.72		
ALPHA-BHC	<2.04	ug/Kg	2.04		
BETA-BHC	<4.08	ug/Kg	4.08		
DELTA-BHC	<6.12	ug/Kg	6.12		
GAMMA-BHC	<2.72	ug/Kg	2.72		
CHLORDANE	<9.51	ug/Kg	9.51		
4,4'-DDD	<7.47	ug/Kg	7.47		
4,4'-DDE	<2.72	ug/Kg	2.72		
4,4'DDT	<8.15	ug/Kg	8.15		
DIELDRIN	<1.36	ug/Kg	1.36		
ENDOSULFAN I	<9.51	ug/Kg	9.51		
ENDOSULFAN II	<2.72	ug/Kg	2.72		
ENDOSULFAN SULFATE	<44.8	ug/Kg	44.8		
ENDRIN	<4.08	ug/Kg	4.08		
ENDRIN ALDEHYDE	<15.6	ug/Kg	15.6		
HEPTACHLOR	<2.04	ug/Kg	2.04		
HEPTACHLOR EPOXIDE	<56.4	ug/Kg	56.4		
METHOXYCHLOR	<120	ug/Kg	120		
TOXAPHENE	<163.	ug/Kg	163.		
AROCHLOR-1016	<160.	ug/Kg	160.		
AROCHLOR-1221	<160.	ug/Kg	160.		
AROCHLOR-1232	<160.	ug/Kg	160.		
AROCHLOR-1242	<160.	ug/Kg	160.		
AROCHLOR-1248	<160.	ug/Kg	160.		
AROCHLOR-1254	<160.	ug/Kg	160.		
AROCHLOR-1260	<160.	ug/Kg	160.		
SURROGATE DIBUTYLCHLOROINDATE	44.0	% Recovery			

SAMPLE ID- 0156HA10(000.0)
SAMPLE NUMBER- 694
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/21/94	8080
ALDRIN	<2.73	ug/Kg	2.73		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.10	ug/Kg	4.10		
DELTA-BHC	<6.15	ug/Kg	6.15		
GAMMA-BHC	<2.73	ug/Kg	2.73		

CONTINUATION OF DATA FOR SAMPLE NUMBER 694

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORDANE	<9.57	ug/Kg	9.57		
4,4'-DDD	7.55	ug/Kg	7.52		
4,4'-DDE	4.80	ug/Kg	2.73		
4,4'DDT	19.7	ug/Kg	8.20		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	15.4	ug/Kg	9.57		
ENDOSULFAN II	<2.73	ug/Kg	2.73		
ENDOSULFAN SULFATE	<45.1	ug/Kg	45.1		
ENDRIN	<4.10	ug/Kg	4.10		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.7	ug/Kg	56.7		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	51.0	% Recovery			

SAMPLE ID- 0156HA10(000.0)QC
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 695
TIME SAMPLED- 1152
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/21/94	8080
ALDRIN	<2.73	ug/Kg	2.73		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.10	ug/Kg	4.10		
DELTA-BHC	<6.15	ug/Kg	6.15		
GAMMA-BHC	<2.73	ug/Kg	2.73		
CHLORDANE	<9.56	ug/Kg	9.56		
4,4'-DDD	<7.51	ug/Kg	7.51		
4,4'-DDE	5.40	ug/Kg	2.73		
4,4'DDT	19.6	ug/Kg	8.20		
DIELDRIN	<1.36	ug/Kg	1.36		

CONTINUATION OF DATA FOR SAMPLE NUMBER 695

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ENDOSULFAN I	13.0	ug/Kg	9.56		
ENDOSULFAN II	<2.73	ug/Kg	2.73		
ENDOSULFAN SULFATE	<45.1	ug/Kg	45.1		
ENDRIN	4.79	ug/Kg	4.10		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.7	ug/Kg	56.7		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164	ug/Kg	164		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	57.0	% Recovery			

SAMPLE ID- 0156HA10(002.0)
SAMPLE NUMBER- 696
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1156
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/21/94	8080
ALDRIN	<2.77	ug/Kg	2.77		
ALPHA-BHC	<2.08	ug/Kg	2.08		
BETA-BHC	<4.16	ug/Kg	4.16		
DELTA-BHC	<6.24	ug/Kg	6.24		
GAMMA-BHC	<2.77	ug/Kg	2.77		
CHLORDANE	<9.70	ug/Kg	9.70		
4,4'-DDD	<7.62	ug/Kg	7.62		
4,4'-DDE	<2.77	ug/Kg	2.77		
4,4'DDT	<8.31	ug/Kg	8.31		
DIELDRIN	<1.38	ug/Kg	1.38		
ENDOSULFAN I	<9.70	ug/Kg	9.70		
ENDOSULFAN II	<2.77	ug/Kg	2.77		
ENDOSULFAN SULFATE	<45.7	ug/Kg	45.7		
ENDRIN	<4.16	ug/Kg	4.16		
ENDRIN ALDEHYDE	<15.9	ug/Kg	15.9		

CONTINUATION OF DATA FOR SAMPLE NUMBER 696

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
HEPTACHLOR	<2.08	ug/Kg	2.08		
HEPTACHLOR EPOXIDE	<57.5	ug/Kg	57.5		
METHOXYCHLOR	<122	ug/Kg	122		
TOXAPHENE	<166.	ug/Kg	166.		
AROCHLOR-1016	<163.	ug/Kg	163.		
AROCHLOR-1221	<163.	ug/Kg	163.		
AROCHLOR-1232	<163.	ug/Kg	163.		
AROCHLOR-1242	<163.	ug/Kg	163.		
AROCHLOR-1248	<163.	ug/Kg	163.		
AROCHLOR-1254	<163.	ug/Kg	163.		
AROCHLOR-1260	<163.	ug/Kg	163.		
SURROGATE DIBUTYLCHLOROINDATE	60.0	% Recovery			

SAMPLE ID- 0156HA10(004.0)
SAMPLE NUMBER- 697
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1206
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/22/94	8080
ALDRIN	<2.77	ug/Kg	2.77		
ALPHA-BHC	<2.08	ug/Kg	2.08		
BETA-BHC	<4.16	ug/Kg	4.16		
DELTA-BHC	<6.24	ug/Kg	6.24		
GAMMA-BHC	<2.77	ug/Kg	2.77		
CHLORDANE	<9.71	ug/Kg	9.71		
4,4'-DDD	<7.63	ug/Kg	7.63		
4,4'-DDE	<2.77	ug/Kg	2.77		
4,4'DDT	<8.32	ug/Kg	8.32		
DIELDRIN	<1.39	ug/Kg	1.39		
ENDOSULFAN I	<9.71	ug/Kg	9.71		
ENDOSULFAN II	<2.77	ug/Kg	2.77		
ENDOSULFAN SULFATE	<45.8	ug/Kg	45.8		
ENDRIN	<4.16	ug/Kg	4.16		
ENDRIN ALDEHYDE	<16.0	ug/Kg	16.0		
HEPTACHLOR	<2.08	ug/Kg	2.08		
HEPTACHLOR EPOXIDE	<57.6	ug/Kg	57.6		
METHOXYCHLOR	<122.	ug/Kg	122.		
TOXAPHENE	<166.	ug/Kg	166.		
AROCHLOR-1016	<164	ug/Kg	164		

CONTINUATION OF DATA FOR SAMPLE NUMBER 697

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1221	<164	ug/Kg	164		
AROCHLOR-1232	<164	ug/Kg	164		
AROCHLOR-1242	<164	ug/Kg	164		
AROCHLOR-1248	<164	ug/Kg	164		
AROCHLOR-1254	<164	ug/Kg	164		
AROCHLOR-1260	<164	ug/Kg	164		
SURROGATE DIBUTYLCHLOROINDATE	52.0	% Recovery			

SAMPLE ID- 0156HA01(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 698
TIME SAMPLED- 1000
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/22/94	8080
ALDRIN	<2.80	ug/Kg	2.80		
ALPHA-BHC	<2.10	ug/Kg	2.10		
BETA-BHC	<4.20	ug/Kg	4.20		
DELTA-BHC	<6.29	ug/Kg	6.29		
GAMMA-BHC	<2.80	ug/Kg	2.80		
CHLORDANE	<9.79	ug/Kg	9.79		
4,4'-DDD	<7.69	ug/Kg	7.69		
4,4'-DDE	<2.80	ug/Kg	2.80		
4,4'DDT	<8.39	ug/Kg	8.39		
DIELDRIN	<1.40	ug/Kg	1.40		
ENDOSULFAN I	<9.79	ug/Kg	9.79		
ENDOSULFAN II	<2.80	ug/Kg	2.80		
ENDOSULFAN SULFATE	<46.2	ug/Kg	46.2		
ENDRIN	<4.20	ug/Kg	4.20		
ENDRIN ALDEHYDE	<16.1	ug/Kg	16.1		
HEPTACHLOR	<2.10	ug/Kg	2.10		
HEPTACHLOR EPOXIDE	<58.0	ug/Kg	58.0		
METHOXYCHLOR	<123.	ug/Kg	123.		
TOXAPHENE	<168	ug/Kg	168		
AROCHLOR-1016	<165	ug/Kg	165		
AROCHLOR-1221	<165	ug/Kg	165		
AROCHLOR-1232	<165	ug/Kg	165		
AROCHLOR-1242	<165	ug/Kg	165		
AROCHLOR-1248	<165	ug/Kg	165		
AROCHLOR-1254	<165	ug/Kg	165		

CONTINUATION OF DATA FOR SAMPLE NUMBER 698

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1260	<165	ug/Kg	165		
SURROGATE DIBUTYLCHLOROINDATE	60.0	% Recovery			

SAMPLE ID- 0156HA01(002.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 699 **TIME SAMPLED- 1011** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/22/94	8080
ALDRIN	<2.75	ug/Kg	2.75		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.12	ug/Kg	4.12		
DELTA-BHC	<6.18	ug/Kg	6.18		
GAMMA-BHC	<2.75	ug/Kg	2.75		
CHLORDANE	<9.62	ug/Kg	9.62		
4,4'-DDD	<7.56	ug/Kg	7.56		
4,4'-DDE	<2.75	ug/Kg	2.75		
4,4'DDT	<8.25	ug/Kg	8.25		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.62	ug/Kg	9.62		
ENDOSULFAN II	<2.75	ug/Kg	2.75		
ENDOSULFAN SULFATE	<45.4	ug/Kg	45.4		
ENDRIN	<4.12	ug/Kg	4.12		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		
HEPTACHLOR	<2.06	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<57.0	ug/Kg	57.0		
METHOXYCHLOR	<121	ug/Kg	121		
TOXAPHENE	<165	ug/Kg	165		
AROCHLOR-1016	<162.	ug/Kg	162.		
AROCHLOR-1221	<162.	ug/Kg	162.		
AROCHLOR-1232	<162.	ug/Kg	162.		
AROCHLOR-1242	<162.	ug/Kg	162.		
AROCHLOR-1248	<162.	ug/Kg	162.		
AROCHLOR-1254	<162.	ug/Kg	162.		
AROCHLOR-1260	<162.	ug/Kg	162.		
SURROGATE DIBUTYLCHLOROINDATE	53.0	% Recovery			

SAMPLE ID- 0156HA05(000.0)

SAMPLE NUMBER- 700
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1347
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	<2.74	ug/Kg	2.74		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.16	ug/Kg	6.16		
GAMMA-BHC	<2.74	ug/Kg	2.74		
CHLORDANE	<9.58	ug/Kg	9.58		
4,4'-DDD	<7.53	ug/Kg	7.53		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	<8.21	ug/Kg	8.21		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.58	ug/Kg	9.58		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.2	ug/Kg	45.2		
ENDRIN	<4.11	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.8	ug/Kg	56.8		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	112	% Recovery			

SAMPLE ID- 0156HA05(002.0)

SAMPLE NUMBER- 701
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080

CONTINUATION OF DATA FOR SAMPLE NUMBER 701

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ALDRIN	<2.75	ug/Kg	2.75		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.12	ug/Kg	4.12		
DELTA-BHC	<6.18	ug/Kg	6.18		
GAMMA-BHC	<2.75	ug/Kg	2.75		
CHLORDANE	<9.62	ug/Kg	9.62		
4,4'-DDD	<7.56	ug/Kg	7.56		
4,4'-DDE	<2.75	ug/Kg	2.75		
4,4'DDT	<8.25	ug/Kg	8.25		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.62	ug/Kg	9.62		
ENDOSULFAN II	<2.75	ug/Kg	2.75		
ENDOSULFAN SULFATE	<45.4	ug/Kg	45.4		
ENDRIN	<4.12	ug/Kg	4.12		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		
HEPTACHLOR	<2.06	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<57.0	ug/Kg	57.0		
METHOXYCHLOR	<121	ug/Kg	121		
TOXAPHENE	<165	ug/Kg	165		
AROCHLOR-1016	<162.	ug/Kg	162.		
AROCHLOR-1221	<162.	ug/Kg	162.		
AROCHLOR-1232	<162.	ug/Kg	162.		
AROCHLOR-1242	<162.	ug/Kg	162.		
AROCHLOR-1248	<162.	ug/Kg	162.		
AROCHLOR-1254	<162.	ug/Kg	162.		
AROCHLOR-1260	<162.	ug/Kg	162.		
SURROGATE DIBUTYLCHLOROINDATE	101	% Recovery			

SAMPLE ID- 0156HA05(002.0)QC
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 702
TIME SAMPLED- 1359
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	<2.76	ug/Kg	2.76		
ALPHA-BHC	<2.07	ug/Kg	2.07		
BETA-BHC	<4.14	ug/Kg	4.14		
DELTA-BHC	<6.21	ug/Kg	6.21		
GAMMA-BHC	<2.76	ug/Kg	2.76		

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORDANE	<9.66	ug/Kg	9.66		
4,4'-DDD	<7.59	ug/Kg	7.59		
4,4'-DDE	<2.76	ug/Kg	2.76		
4,4'DDT	<8.28	ug/Kg	8.28		
DIELDRIN	<1.38	ug/Kg	1.38		
ENDOSULFAN I	<9.66	ug/Kg	9.66		
ENDOSULFAN II	<2.76	ug/Kg	2.76		
ENDOSULFAN SULFATE	<45.5	ug/Kg	45.5		
ENDRIN	<4.14	ug/Kg	4.14		
ENDRIN ALDEHYDE	<15.9	ug/Kg	15.9		
HEPTACHLOR	<2.07	ug/Kg	2.07		
HEPTACHLOR EPOXIDE	<57.3	ug/Kg	57.3		
METHOXYCHLOR	<121.	ug/Kg	121.		
TOXAPHENE	<166	ug/Kg	166		
AROCHLOR-1016	<163	ug/Kg	163		
AROCHLOR-1221	<163	ug/Kg	163		
AROCHLOR-1232	<163	ug/Kg	163		
AROCHLOR-1242	<163	ug/Kg	163		
AROCHLOR-1248	<163	ug/Kg	163		
AROCHLOR-1254	<163	ug/Kg	163		
AROCHLOR-1260	<163	ug/Kg	163		
SURROGATE DIBUTYLCHLOROINDATE	102	% Recovery			

SAMPLE ID- 0156HA05(003.0)
SAMPLE NUMBER- 703
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1410
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	<2.73	ug/Kg	2.73		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.10	ug/Kg	4.10		
DELTA-BHC	<6.15	ug/Kg	6.15		
GAMMA-BHC	<2.73	ug/Kg	2.73		
CHLORDANE	<9.57	ug/Kg	9.57		
4,4'-DDD	<7.52	ug/Kg	7.52		
4,4'-DDE	<2.73	ug/Kg	2.73		
4,4'DDT	<8.20	ug/Kg	8.20		
DIELDRIN	<1.37	ug/Kg	1.37		

CONTINUATION OF DATA FOR SAMPLE NUMBER 703

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ENDOSULFAN I	<9.57	ug/Kg	9.57		
ENDOSULFAN II	<2.73	ug/Kg	2.73		
ENDOSULFAN SULFATE	<45.1	ug/Kg	45.1		
ENDRIN	<4.10	ug/Kg	4.10		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.7	ug/Kg	56.7		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	115	% Recovery			

SAMPLE ID- 0156HA06(000.0)
SAMPLE NUMBER- 704
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	<2.74	ug/Kg	2.74		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.17	ug/Kg	6.17		
GAMMA-BHC	<2.74	ug/Kg	2.74		
CHLORDANE	<9.60	ug/Kg	9.60		
4,4'-DDD	<7.54	ug/Kg	7.54		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	<8.23	ug/Kg	8.23		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.60	ug/Kg	9.60		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.3	ug/Kg	45.3		
ENDRIN	<4.11	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		

CONTINUATION OF DATA FOR SAMPLE NUMBER 704

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
HEPTACHLOR	<2.06	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<56.9	ug/Kg	56.9		
METHOXYCHLOR	<121	ug/Kg	121		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<162	ug/Kg	162		
AROCHLOR-1221	<162	ug/Kg	162		
AROCHLOR-1232	<162	ug/Kg	162		
AROCHLOR-1242	<162	ug/Kg	162		
AROCHLOR-1248	<162	ug/Kg	162		
AROCHLOR-1254	<162	ug/Kg	162		
AROCHLOR-1260	<162	ug/Kg	162		
SURROGATE DIBUTYLCHLOROINDATE	73.0	% Recovery			

SAMPLE ID- 0156HA06(000.0)MS
SAMPLE NUMBER- 705
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	1.52	ug/Kg	2.74		
ALPHA-BHC	<2.06	ug/Kg	2.06		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.16	ug/Kg	6.16		
GAMMA-BHC	1.24	ug/Kg	2.74		
CHLORDANE	<9.59	ug/Kg	9.59		
4,4'-DDD	<7.54	ug/Kg	7.54		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	5.06	ug/Kg	8.22		
DIELDRIN	3.53	ug/Kg	1.37		
ENDOSULFAN I	<9.59	ug/Kg	9.59		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.2	ug/Kg	45.2		
ENDRIN	1.45	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.8	ug/Kg	15.8		
HEPTACHLOR	1.96	ug/Kg	2.06		
HEPTACHLOR EPOXIDE	<56.9	ug/Kg	56.9		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<162	ug/Kg	162		

CONTINUATION OF DATA FOR SAMPLE NUMBER 705

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1221	<162	ug/Kg	162		
AROCHLOR-1232	<162	ug/Kg	162		
AROCHLOR-1242	<162	ug/Kg	162		
AROCHLOR-1248	<162	ug/Kg	162		
AROCHLOR-1254	<162	ug/Kg	162		
AROCHLOR-1260	<162	ug/Kg	162		
SURROGATE DIBUTYLCHLOROINDATE	95.0	% Recovery			

SAMPLE ID- 0156HA06(000.0)MSD
SAMPLE NUMBER- 706
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	1.60	ug/Kg	2.74		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.16	ug/Kg	6.16		
GAMMA-BHC	.868	ug/Kg	2.74		
CHLORDANE	<9.58	ug/Kg	9.58		
4,4'-DDD	<7.53	ug/Kg	7.53		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	3.63	ug/Kg	8.21		
DIELDRIN	3.39	ug/Kg	1.37		
ENDOSULFAN I	<9.58	ug/Kg	9.58		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.2	ug/Kg	45.2		
ENDRIN	1.05	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	1.55	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.8	ug/Kg	56.8		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 706

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	61.0	% Recovery			

SAMPLE ID- 0156HA06(002.0)
SAMPLE NUMBER- 707
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1357
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	<2.87	ug/Kg	2.87		
ALPHA-BHC	<2.15	ug/Kg	2.15		
BETA-BHC	<4.31	ug/Kg	4.31		
DELTA-BHC	<6.46	ug/Kg	6.46		
GAMMA-BHC	<2.87	ug/Kg	2.87		
CHLORDANE	<10.0	ug/Kg	10.0		
4,4'-DDD	<7.90	ug/Kg	7.90		
4,4'-DDE	<2.87	ug/Kg	2.87		
4,4'DDT	<8.62	ug/Kg	8.62		
DIELDRIN	<1.44	ug/Kg	1.44		
ENDOSULFAN I	<10.0	ug/Kg	10.0		
ENDOSULFAN II	<2.87	ug/Kg	2.87		
ENDOSULFAN SULFATE	<47.4	ug/Kg	47.4		
ENDRIN	<4.31	ug/Kg	4.31		
ENDRIN ALDEHYDE	<16.5	ug/Kg	16.5		
HEPTACHLOR	<2.15	ug/Kg	2.15		
HEPTACHLOR EPOXIDE	<59.6	ug/Kg	59.6		
METHOXYCHLOR	<126.	ug/Kg	126.		
TOXAPHENE	<172.	ug/Kg	172.		
AROCHLOR-1016	<169.	ug/Kg	169.		
AROCHLOR-1221	<169.	ug/Kg	169.		
AROCHLOR-1232	<169.	ug/Kg	169.		
AROCHLOR-1242	<169.	ug/Kg	169.		
AROCHLOR-1248	<169.	ug/Kg	169.		
AROCHLOR-1254	<169.	ug/Kg	169.		
AROCHLOR-1260	<169.	ug/Kg	169.		
SURROGATE DIBUTYLCHLOROINDATE	52.0	% Recovery			

SAMPLE ID- 0156HA06(004.0)
SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	<2.74	ug/Kg	2.74		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.16	ug/Kg	6.16		
GAMMA-BHC	<2.74	ug/Kg	2.74		
CHLORDANE	<9.58	ug/Kg	9.58		
4,4'-DDD	<7.53	ug/Kg	7.53		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	<8.21	ug/Kg	8.21		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.58	ug/Kg	9.58		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.2	ug/Kg	45.2		
ENDRIN	<4.11	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.8	ug/Kg	56.8		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	76.0	% Recovery			

SAMPLE ID- 0156HA08(000.0)
SAMPLE NUMBER- 709
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1050
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080

CONTINUATION OF DATA FOR SAMPLE NUMBER 709

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ALDRIN	<2.76	ug/Kg	2.76		
ALPHA-BHC	<2.07	ug/Kg	2.07		
BETA-BHC	<4.15	ug/Kg	4.15		
DELTA-BHC	<6.22	ug/Kg	6.22		
GAMMA-BHC	<2.76	ug/Kg	2.76		
CHLORDANE	<9.68	ug/Kg	9.68		
4,4'-DDD	<7.60	ug/Kg	7.60		
4,4'-DDE	<2.76	ug/Kg	2.76		
4,4'DDT	<8.30	ug/Kg	8.30		
DIELDRIN	<1.38	ug/Kg	1.38		
ENDOSULFAN I	<9.68	ug/Kg	9.68		
ENDOSULFAN II	<2.76	ug/Kg	2.76		
ENDOSULFAN SULFATE	<45.6	ug/Kg	45.6		
ENDRIN	<4.15	ug/Kg	4.15		
ENDRIN ALDEHYDE	<15.9	ug/Kg	15.9		
HEPTACHLOR	<2.07	ug/Kg	2.07		
HEPTACHLOR EPOXIDE	<57.4	ug/Kg	57.4		
METHOXYCHLOR	<122	ug/Kg	122		
TOXAPHENE	<166	ug/Kg	166		
AROCHLOR-1016	<163.	ug/Kg	163.		
AROCHLOR-1221	<163.	ug/Kg	163.		
AROCHLOR-1232	<163.	ug/Kg	163.		
AROCHLOR-1242	<163.	ug/Kg	163.		
AROCHLOR-1248	<163.	ug/Kg	163.		
AROCHLOR-1254	<163.	ug/Kg	163.		
AROCHLOR-1260	<163.	ug/Kg	163.		
SURROGATE DIBUTYLCHLOROINDATE	73.0	% Recovery			

SAMPLE ID- 0156HA08(002.0)

SAMPLE NUMBER- 710
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1055
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
PESTICIDES/PCB'S				03/15/94	8080
ALDRIN	<2.74	ug/Kg	2.74		
ALPHA-BHC	<2.05	ug/Kg	2.05		
BETA-BHC	<4.11	ug/Kg	4.11		
DELTA-BHC	<6.16	ug/Kg	6.16		
GAMMA-BHC	<2.74	ug/Kg	2.74		

CONTINUATION OF DATA FOR SAMPLE NUMBER 710

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORDANE	<9.58	ug/Kg	9.58		
4,4'-DDD	<7.53	ug/Kg	7.53		
4,4'-DDE	<2.74	ug/Kg	2.74		
4,4'DDT	<8.21	ug/Kg	8.21		
DIELDRIN	<1.37	ug/Kg	1.37		
ENDOSULFAN I	<9.58	ug/Kg	9.58		
ENDOSULFAN II	<2.74	ug/Kg	2.74		
ENDOSULFAN SULFATE	<45.2	ug/Kg	45.2		
ENDRIN	<4.11	ug/Kg	4.11		
ENDRIN ALDEHYDE	<15.7	ug/Kg	15.7		
HEPTACHLOR	<2.05	ug/Kg	2.05		
HEPTACHLOR EPOXIDE	<56.8	ug/Kg	56.8		
METHOXYCHLOR	<120.	ug/Kg	120.		
TOXAPHENE	<164.	ug/Kg	164.		
AROCHLOR-1016	<161.	ug/Kg	161.		
AROCHLOR-1221	<161.	ug/Kg	161.		
AROCHLOR-1232	<161.	ug/Kg	161.		
AROCHLOR-1242	<161.	ug/Kg	161.		
AROCHLOR-1248	<161.	ug/Kg	161.		
AROCHLOR-1254	<161.	ug/Kg	161.		
AROCHLOR-1260	<161.	ug/Kg	161.		
SURROGATE DIBUTYLCHLOROINDATE	70.0	% Recovery			

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR Jimmie T. Hartley for James H. Carr
James H. Carr

SAMPLE ID- 0145MW46(WATER)
SAMPLE NUMBER- 675
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/09/94
TIME SAMPLED- 1650
DATE RECEIVED- 01/11/94

TIME RECEIVED- 0930
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
FLUORIDE	2.00	mg/L	0.10	01/25/94	340.2
TOTAL DISSOLVED SOLIDS	8520	mg/L	1.00	01/14/94	160.1
ARSENIC	0.006	mg/L	0.005	03/04/94	7060
ARSENIC-DISSOLVED	0.006	mg/L	0.005	03/04/94	7060
BARIUM	< 0.05	mg/L	0.05	02/23/94	6010
BARIUM-DISSOLVED	< 0.05	mg/L	0.05	03/03/94	6010
CADMIUM	< 0.005	mg/L	0.005	02/23/94	6010
CADMIUM-DISSOLVED	< 0.005	mg/L	0.005	03/03/94	6010
CHROMIUM	< 0.025	mg/L	0.025	02/23/94	6010
CHROMIUM-DISSOLVED	< 0.025	mg/L	0.025	03/03/94	6010
LEAD	0.010	mg/L	0.003	03/08/94	7421
LEAD-DISSOLVED	0.032	mg/L	0.003	03/04/94	7421
MERCURY	< 0.0002	mg/L	0.0002	02/04/94	7470
MERCURY-DISSOLVED	< 0.0002	mg/L	0.0002	01/17/94	7470
SELENIUM	< 0.125	mg/L	0.125	03/17/94	7740
SELENIUM-DISSOLVED	0.020	mg/L	0.005	03/03/94	7740
SILVER	< 0.025	mg/L	0.025	02/23/94	6010
SILVER-DISSOLVED	< 0.025	mg/L	0.025	03/03/94	6010

SAMPLE ID- 0156HA09(WATER)EB
SAMPLE NUMBER- 676
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1330
DATE RECEIVED- 01/11/94

TIME RECEIVED- 0930
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ARSENIC	< 0.005	mg/L	0.005	03/02/94	7060
BARIUM	< 0.05	mg/L	0.05	02/23/94	6010
CADMIUM	< 0.005	mg/L	0.005	02/23/94	6010
CHROMIUM	< 0.025	mg/L	0.025	02/23/94	6010
LEAD	< 0.003	mg/L	0.003	03/02/94	7421
MERCURY	< 0.0002	mg/L	0.0002	02/04/94	7470
SELENIUM	< 0.005	mg/L	0.005	03/03/94	7740
SILVER	< 0.025	mg/L	0.025	02/23/94	6010

SAMPLE ID- 0156HA02(000.0)
SAMPLE NUMBER- 678
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1004
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.90	%	0.01	01/17/94	
ARSENIC	<2.57	mg/Kg	2.57	02/25/94	7060
BARIUM	50.0	mg/Kg	25.7	03/01/94	6010
CADMIUM	<5.15	mg/Kg	5.15	03/01/94	6010
CHROMIUM	<25.7	mg/Kg	25.7	03/01/94	6010
LEAD	6.79	mg/Kg	2.57	02/25/94	7421
MERCURY	.0206	mg/Kg	.0206	02/17/94	7470
SELENIUM	<2.57	mg/Kg	2.57	02/26/94	7740
SILVER	<25.7	mg/Kg	25.7	03/01/94	6010

SAMPLE ID- 0156HA02(002.0)
SAMPLE NUMBER- 679
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1014
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.20	%	0.01	01/17/94	
ARSENIC	<2.56	mg/Kg	2.56	02/25/94	7060
BARIUM	58.5	mg/Kg	25.6	03/01/94	6010
CADMIUM	<5.11	mg/Kg	5.11	03/01/94	6010
CHROMIUM	<25.6	mg/Kg	25.6	03/01/94	6010
LEAD	6.90	mg/Kg	2.56	02/25/94	7421
MERCURY	<.0204	mg/Kg	.0204	02/17/94	7470
SELENIUM	<2.56	mg/Kg	2.56	02/26/94	7740
SILVER	<25.6	mg/Kg	25.6	03/01/94	6010

SAMPLE ID- 0156HA03(002.0)
SAMPLE NUMBER- 680
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1028
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	7.30	%	0.01	01/17/94	
ARSENIC	<2.70	mg/Kg	2.70	02/25/94	7060
BARIUM	77.1	mg/Kg	27.0	03/01/94	6010

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CADMIUM	<5.39	mg/Kg	5.39	03/01/94	6010
CHROMIUM	<27.0	mg/Kg	27.0	03/01/94	6010
LEAD	10.7	mg/Kg	2.70	02/25/94	7421
MERCURY	<.0216	mg/Kg	.0216	02/17/94	7470
SELENIUM	<2.70	mg/Kg	2.70	02/26/94	7740
SILVER	<27.0	mg/Kg	27.0	03/01/94	6010

SAMPLE ID- 0156HA04(002.0)
SAMPLE NUMBER- 681
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1025
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	1.40	%	0.01	01/17/94	
ARSENIC	<2.54	mg/Kg	2.54	02/25/94	7060
BARIUM	51.7	mg/Kg	25.4	03/01/94	6010
CADMIUM	<5.07	mg/Kg	5.07	03/01/94	6010
CHROMIUM	<25.4	mg/Kg	25.4	03/01/94	6010
LEAD	6.91	mg/Kg	2.54	02/25/94	7421
MERCURY	<.0203	mg/Kg	.0203	02/17/94	7470
SELENIUM	<2.54	mg/Kg	2.54	02/26/94	7740
SILVER	<25.4	mg/Kg	25.4	03/01/94	6010

SAMPLE ID- 0156HA03(000.0)
SAMPLE NUMBER- 682
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1026
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	5.20	%	0.01	01/17/94	
ARSENIC	<2.64	mg/Kg	2.64	02/25/94	7060
BARIUM	58.0	mg/Kg	26.4	03/01/94	6010
CADMIUM	<5.27	mg/Kg	5.27	03/01/94	6010
CHROMIUM	<26.4	mg/Kg	26.4	03/01/94	6010
LEAD	8.21	mg/Kg	2.64	02/25/94	7421
MERCURY	<.0211	mg/Kg	.0211	02/17/94	7470
SELENIUM	<2.64	mg/Kg	2.64	02/26/94	7740
SILVER	<26.4	mg/Kg	26.4	03/01/94	6010

SAMPLE ID- 0156HA04(000.0)
SAMPLE NUMBER- 683
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1021
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.60	%	0.01	01/17/94	
ARSENIC	<2.59	mg/Kg	2.59	02/25/94	7060
BARIUM	55.0	mg/Kg	25.9	03/01/94	6010
CADMIUM	6.12	mg/Kg	5.19	03/01/94	6010
CHROMIUM	27.0	mg/Kg	25.9	03/01/94	6010
LEAD	8.18	mg/Kg	2.59	02/25/94	7421
MERCURY	<.0207	mg/Kg	.0207	02/17/94	7470
SELENIUM	<2.59	mg/Kg	2.59	02/26/94	7740
SILVER	<25.9	mg/Kg	25.9	03/01/94	6010

SAMPLE ID- 0156HA07(000.0)
SAMPLE NUMBER- 684
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1051
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.60	%	0.01	01/17/94	
ARSENIC	<2.59	mg/Kg	2.59	02/25/94	7060
BARIUM	49.8	mg/Kg	25.9	03/01/94	6010
CADMIUM	5.39	mg/Kg	5.19	03/01/94	6010
CHROMIUM	<25.9	mg/Kg	25.9	03/01/94	6010
LEAD	7.74	mg/Kg	2.59	02/25/94	7421
MERCURY	<.0207	mg/Kg	.0207	02/17/94	7470
SELENIUM	<2.59	mg/Kg	2.59	02/26/94	7740
SILVER	<25.9	mg/Kg	25.9	03/01/94	6010

SAMPLE ID- 0156HA07(002.0)
SAMPLE NUMBER- 685
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1053
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.50	%	0.01	01/17/94	
ARSENIC	<2.56	mg/Kg	2.56	02/25/94	7060
BARIUM	62.6	mg/Kg	25.6	03/01/94	6010

CONTINUATION OF DATA FOR SAMPLE NUMBER 685

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CADMIUM	<5.13	mg/Kg	5.13	03/01/94	6010
CHROMIUM	<25.6	mg/Kg	25.6	03/01/94	6010
LEAD	8.51	mg/Kg	2.56	02/25/94	7421
MERCURY	.0205	mg/Kg	.0205	02/17/94	7470
SELENIUM	<2.56	mg/Kg	2.56	02/26/94	7740
SILVER	<25.6	mg/Kg	25.6	03/01/94	6010

SAMPLE ID- 0156HA07(004.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 686
TIME SAMPLED- 1123
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.10	%	0.01	01/17/94	
ARSENIC	<2.55	mg/Kg	2.55	02/25/94	7060
BARIUM	61.3	mg/Kg	25.5	03/01/94	6010
CADMIUM	7.15	mg/Kg	5.11	03/01/94	6010
CHROMIUM	<25.5	mg/Kg	25.5	03/01/94	6010
LEAD	10.4	mg/Kg	2.55	02/25/94	7421
MERCURY	.0306	mg/Kg	.0204	02/17/94	7470
SELENIUM	<2.55	mg/Kg	2.55	02/26/94	7740
SILVER	<25.5	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 0156HA11(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 687
TIME SAMPLED- 0749
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	1.60	%	0.01	01/24/94	
ARSENIC	<2.54	mg/Kg	2.54	02/25/94	7060
BARIUM	28.4	mg/Kg	25.4	03/01/94	6010
CADMIUM	<5.08	mg/Kg	5.08	03/01/94	6010
CHROMIUM	<25.4	mg/Kg	25.4	03/01/94	6010
LEAD	5.12	mg/Kg	2.54	02/25/94	7421
MERCURY	<.0203	mg/Kg	.0203	02/17/94	7470
SELENIUM	<2.54	mg/Kg	2.54	02/26/94	7740
SILVER	<25.4	mg/Kg	25.4	03/01/94	6010

SAMPLE ID- 2730MW03(WATER)

SAMPLE NUMBER- 688
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/11/94
TIME SAMPLED- 1115
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
TOTAL DISSOLVED SOLIDS	31846	mg/L	1.00	01/14/94	160.1
ARSENIC	0.005	mg/L	0.005	03/02/94	7060
ARSENIC-DISSOLVED	0.016	mg/L	0.005	03/04/94	7060
BARIUM	< 0.05	mg/L	0.05	02/23/94	6010
BARIUM-DISSOLVED	< 0.05	mg/L	0.05	03/03/94	6010
CADMIUM	< 0.005	mg/L	0.005	02/23/94	6010
CADMIUM-DISSOLVED	< 0.005	mg/L	0.005	03/03/94	6010
CHROMIUM	< 0.025	mg/L	0.025	02/23/94	6010
CHROMIUM-DISSOLVED	< 0.025	mg/L	0.025	03/03/94	6010
LEAD	< 0.003	mg/L	0.003	03/02/94	7421
LEAD-DISSOLVED	< 0.003	mg/L	0.003	03/04/94	7421
MERCURY	< 0.0002	mg/L	0.0002	02/04/94	7470
MERCURY-DISSOLVED	< 0.0002	mg/L	0.0002	01/17/94	7470
SELENIUM	0.270	mg/L	0.005	03/09/94	7740
SELENIUM-DISSOLVED	0.070	mg/L	0.125	03/17/94	7740
SILVER	< 0.025	mg/L	0.025	02/23/94	6010
SILVER-DISSOLVED	< 0.025	mg/L	0.025	03/03/94	6010

SAMPLE ID- 0156HA08(003.0)

SAMPLE NUMBER- 689
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1222
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	1.60	%	0.01	01/24/94	
ARSENIC	<2.54	mg/Kg	2.54	02/25/94	7060
BARIUM	67.1	mg/Kg	25.4	03/01/94	6010
CADMIUM	6.40	mg/Kg	5.08	03/01/94	6010
CHROMIUM	<25.4	mg/Kg	25.4	03/01/94	6010
LEAD	9.57	mg/Kg	2.54	02/25/94	7421
MERCURY	<.0203	mg/Kg	.0203	02/17/94	7470
SELENIUM	<2.54	mg/Kg	2.54	02/26/94	7740
SILVER	<25.4	mg/Kg	25.4	03/01/94	6010

SAMPLE ID- 0156HA09(000.0)
SAMPLE NUMBER- 690
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1150
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	1.80	%	0.01	01/24/94	
ARSENIC	<2.54	mg/Kg	2.54	02/25/94	7060
BARIUM	63.1	mg/Kg	25.4	03/01/94	6010
CADMIUM	<5.09	mg/Kg	5.09	03/01/94	6010
CHROMIUM	51.9	mg/Kg	25.4	03/01/94	6010
LEAD	19.1	mg/Kg	2.54	02/25/94	7421
MERCURY	.316	mg/Kg	.0204	02/17/94	7470
SELENIUM	<2.54	mg/Kg	2.54	02/26/94	7740
SILVER	<25.4	mg/Kg	25.4	03/01/94	6010

SAMPLE ID- 0156HA09(002.0)
SAMPLE NUMBER- 691
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.70	%	0.01	01/24/94	
ARSENIC	<2.57	mg/Kg	2.57	03/01/94	7060
BARIUM	54.5	mg/Kg	25.7	03/01/94	6010
CADMIUM	<5.14	mg/Kg	5.14	03/01/94	6010
CHROMIUM	49.6	mg/Kg	25.7	03/01/94	6010
LEAD	9.88	mg/Kg	2.57	03/01/94	7421
MERCURY	<.0206	mg/Kg	.0206	02/17/94	7470
SELENIUM	<2.57	mg/Kg	2.57	03/02/94	7740
SILVER	<25.7	mg/Kg	25.7	03/01/94	6010

SAMPLE ID- 0156HA09(002.0)QC
SAMPLE NUMBER- 692
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.30	%	0.01	01/24/94	
ARSENIC	<2.56	mg/Kg	2.56	03/01/94	7060
BARIUM	66.3	mg/Kg	25.6	03/01/94	6010

CONTINUATION OF DATA FOR SAMPLE NUMBER 692

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CADMIUM	<5.12	mg/Kg	5.12	03/01/94	6010
CHROMIUM	56.0	mg/Kg	25.6	03/01/94	6010
LEAD	8.30	mg/Kg	2.56	03/01/94	7421
MERCURY	.0512	mg/Kg	.0205	02/17/94	7470
SELENIUM	<2.56	mg/Kg	2.56	03/02/94	7740
SILVER	<25.6	mg/Kg	25.6	03/01/94	6010

SAMPLE ID- 0156HA09(004.0)
SAMPLE NUMBER- 693
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1204
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	1.40	%	0.01	01/24/94	
ARSENIC	<2.54	mg/Kg	2.54	03/01/94	7060
BARIUM	34.5	mg/Kg	25.4	03/01/94	6010
CADMIUM	<5.07	mg/Kg	5.07	03/01/94	6010
CHROMIUM	46.6	mg/Kg	25.4	03/01/94	6010
LEAD	4.93	mg/Kg	2.54	03/01/94	7421
MERCURY	<.0203	mg/Kg	.0203	02/17/94	7470
SELENIUM	<2.54	mg/Kg	2.54	03/02/94	7740
SILVER	<25.4	mg/Kg	25.4	03/01/94	6010

SAMPLE ID- 0156HA10(000.0)
SAMPLE NUMBER- 694
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.00	%	0.01	01/24/94	
ARSENIC	<2.55	mg/Kg	2.55	03/01/94	7060
BARIUM	56.1	mg/Kg	25.5	03/01/94	6010
CADMIUM	<5.10	mg/Kg	5.10	03/01/94	6010
CHROMIUM	108.	mg/Kg	25.5	03/01/94	6010
LEAD	14.1	mg/Kg	2.55	03/01/94	7421
MERCURY	.133	mg/Kg	.0204	02/17/94	7470
SELENIUM	<2.55	mg/Kg	2.55	03/02/94	7740
SILVER	<25.5	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 0156HA10(000.0)QC
SAMPLE NUMBER- 695
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	1.90	%	0.01	01/24/94	
ARSENIC	<2.55	mg/Kg	2.55	03/01/94	7060
BARIUM	58.1	mg/Kg	25.5	03/01/94	6010
CADMIUM	<5.10	mg/Kg	5.10	03/01/94	6010
CHROMIUM	149	mg/Kg	25.5	03/01/94	6010
LEAD	18.6	mg/Kg	2.55	03/01/94	7421
MERCURY	.112	mg/Kg	.0204	02/17/94	7470
SELENIUM	<2.55	mg/Kg	2.55	03/02/94	7740
SILVER	<25.5	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 0156HA10(002.0)
SAMPLE NUMBER- 696
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1156
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.30	%	0.01	01/24/94	
ARSENIC	<2.58	mg/Kg	2.58	03/01/94	7060
BARIUM	53.8	mg/Kg	25.8	03/01/94	6010
CADMIUM	<5.17	mg/Kg	5.17	03/01/94	6010
CHROMIUM	51.7	mg/Kg	25.8	03/01/94	6010
LEAD	8.38	mg/Kg	2.58	03/01/94	7421
MERCURY	<.0207	mg/Kg	.0207	02/17/94	7470
SELENIUM	<2.58	mg/Kg	2.58	03/02/94	7740
SILVER	<25.8	mg/Kg	25.8	03/01/94	6010

SAMPLE ID- 0156HA10(004.0)
SAMPLE NUMBER- 697
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1206
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.40	%	0.01	01/24/94	
ARSENIC	<2.59	mg/Kg	2.59	03/01/94	7060
BARIUM	71.4	mg/Kg	25.9	03/01/94	6010

CONTINUATION OF DATA FOR SAMPLE NUMBER 697

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CADMIUM	<5.18	mg/Kg	5.18	03/01/94	6010
CHROMIUM	55.9	mg/Kg	25.9	03/01/94	6010
LEAD	9.43	mg/Kg	2.59	03/01/94	7421
MERCURY	<.0207	mg/Kg	.0207	02/17/94	7470
SELENIUM	<2.59	mg/Kg	2.59	03/02/94	7740
SILVER	<25.9	mg/Kg	25.9	03/01/94	6010

SAMPLE ID- 0156HA01(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 698
TIME SAMPLED- 1000
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	4.20	%	0.01	01/24/94	
ARSENIC	<2.61	mg/Kg	2.61	03/01/94	7060
BARIUM	51.1	mg/Kg	26.1	03/01/94	6010
CADMIUM	<5.22	mg/Kg	5.22	03/01/94	6010
CHROMIUM	52.2	mg/Kg	26.1	03/01/94	6010
LEAD	9.57	mg/Kg	2.61	03/01/94	7421
MERCURY	<.0209	mg/Kg	.0209	02/17/94	7470
SELENIUM	<2.61	mg/Kg	2.61	03/02/94	7740
SILVER	<26.1	mg/Kg	26.1	03/01/94	6010

SAMPLE ID- 0156HA01(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 699
TIME SAMPLED- 1011
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.50	%	0.01	01/24/94	
ARSENIC	<2.56	mg/Kg	2.56	03/01/94	7060
BARIUM	62.6	mg/Kg	25.6	03/01/94	6010
CADMIUM	<5.13	mg/Kg	5.13	03/01/94	6010
CHROMIUM	45.1	mg/Kg	25.6	03/01/94	6010
LEAD	8.19	mg/Kg	2.56	03/01/94	7421
MERCURY	<.0205	mg/Kg	.0205	03/03/94	7470
SELENIUM	<2.56	mg/Kg	2.56	03/02/94	7740
SILVER	<25.6	mg/Kg	25.6	03/01/94	6010

SAMPLE ID- 0156HA05(000.0)
SAMPLE NUMBER- 700
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1347
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.10	%	0.01	01/24/94	
ARSENIC	<2.55	mg/Kg	2.55	03/01/94	7060
BARIUM	46.0	mg/Kg	25.5	03/01/94	6010
CADMIUM	<5.11	mg/Kg	5.11	03/01/94	6010
CHROMIUM	47.0	mg/Kg	25.5	03/01/94	6010
LEAD	7.38	mg/Kg	2.55	03/01/94	7421
MERCURY	<.0204	mg/Kg	.0204	03/03/94	7470
SELENIUM	<2.55	mg/Kg	2.55	03/02/94	7740
SILVER	<25.5	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 0156HA05(002.0)
SAMPLE NUMBER- 701
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.50	%	0.01	01/24/94	
ARSENIC	<2.56	mg/Kg	2.56	03/01/94	7060
BARIUM	70.8	mg/Kg	25.6	03/01/94	6010
CADMIUM	<5.13	mg/Kg	5.13	03/01/94	6010
CHROMIUM	<25.6	mg/Kg	25.6	03/01/94	6010
LEAD	9.46	mg/Kg	2.56	03/01/94	7421
MERCURY	<.0205	mg/Kg	.0205	03/03/94	7470
SELENIUM	<2.56	mg/Kg	2.56	03/02/94	7740
SILVER	<25.6	mg/Kg	25.6	03/01/94	6010

SAMPLE ID- 0156HA05(002.0)QC
SAMPLE NUMBER- 702
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.90	%	0.01	01/24/94	
ARSENIC	<2.57	mg/Kg	2.57	03/01/94	7060
BARIUM	66.9	mg/Kg	25.7	03/01/94	6010

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CADMIUM	<5.15	mg/Kg	5.15	03/01/94	6010
CHROMIUM	<25.7	mg/Kg	25.7	03/01/94	6010
LEAD	9.16	mg/Kg	2.57	03/01/94	7421
MERCURY	<.0206	mg/Kg	.0206	03/03/94	7470
SELENIUM	<2.57	mg/Kg	2.57	03/02/94	7740
SILVER	<25.7	mg/Kg	25.7	03/01/94	6010

SAMPLE ID- 0156HA05(003.0)
SAMPLE NUMBER- 703
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1410
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.00	%	0.01	01/24/94	
ARSENIC	<2.55	mg/Kg	2.55	03/01/94	7060
BARIUM	58.2	mg/Kg	25.5	03/01/94	6010
CADMIUM	<5.10	mg/Kg	5.10	03/01/94	6010
CHROMIUM	<25.5	mg/Kg	25.5	03/01/94	6010
LEAD	7.37	mg/Kg	2.55	03/01/94	7421
MERCURY	<.0204	mg/Kg	.0204	03/03/94	7470
SELENIUM	<2.55	mg/Kg	2.55	03/02/94	7740
SILVER	<25.5	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 0156HA06(000.0)
SAMPLE NUMBER- 704
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.30	%	0.01	01/24/94	
ARSENIC	<2.56	mg/Kg	2.56	03/01/94	7060
BARIUM	59.4	mg/Kg	25.6	03/01/94	6010
CADMIUM	<5.12	mg/Kg	5.12	03/01/94	6010
CHROMIUM	<25.6	mg/Kg	25.6	03/01/94	6010
LEAD	8.10	mg/Kg	2.56	03/01/94	7421
MERCURY	<.0205	mg/Kg	.0205	03/03/94	7470
SELENIUM	<2.56	mg/Kg	2.56	03/02/94	7740
SILVER	<25.6	mg/Kg	25.6	03/01/94	6010

SAMPLE ID- 0156HA06(000.0)MS
SAMPLE NUMBER- 705
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.20	%	0.01	01/24/94	
ARSENIC	6.65	mg/Kg	2.56	03/01/94	7060
BARIUM	77.5	mg/Kg	25.6	03/01/94	6010
CADMIUM	22.9	mg/Kg	5.11	03/01/94	6010
CHROMIUM	15.4	mg/Kg	25.6	03/01/94	6010
LEAD	17.8	mg/Kg	2.56	03/01/94	7421
MERCURY	0.112	mg/Kg	.0204	03/03/94	7470
SELENIUM	5.55	mg/Kg	2.56	03/02/94	7740
SILVER	22.8	mg/Kg	25.6	03/01/94	6010

SAMPLE ID- 0156HA06(000.0)MSD
SAMPLE NUMBER- 706
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.10	%	0.01	01/24/94	
ARSENIC	7.52	mg/Kg	2.55	03/01/94	7060
BARIUM	76.3	mg/Kg	25.5	03/01/94	6010
CADMIUM	22.9	mg/Kg	5.11	03/01/94	6010
CHROMIUM	17.0	mg/Kg	25.5	03/01/94	6010
LEAD	14.3	mg/Kg	2.55	03/01/94	7421
MERCURY	0.116	mg/Kg	.0204	03/03/94	7470
SELENIUM	5.66	mg/Kg	2.55	03/02/94	7740
SILVER	22.6	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 0156HA06(002.0)
SAMPLE NUMBER- 707
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1357
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	6.70	%	0.01	01/24/94	
ARSENIC	<2.68	mg/Kg	2.68	03/01/94	7060
BARIUM	71.8	mg/Kg	26.8	03/01/94	6010

CONTINUATION OF DATA FOR SAMPLE NUMBER 707

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CADMIUM	<5.36	mg/Kg	5.36	03/01/94	6010
CHROMIUM	<26.8	mg/Kg	26.8	03/01/94	6010
LEAD	15.0	mg/Kg	2.68	03/01/94	7421
MERCURY	<.0214	mg/Kg	.0214	03/03/94	7470
SELENIUM	<2.68	mg/Kg	2.68	03/02/94	7740
SILVER	<26.8	mg/Kg	26.8	03/01/94	6010

SAMPLE ID- 0156HA06(004.0)
SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.10	%	0.01	01/24/94	
ARSENIC	<2.55	mg/Kg	2.55	03/01/94	7060
BARIUM	85.8	mg/Kg	25.5	03/01/94	6010
CADMIUM	6.33	mg/Kg	5.11	03/01/94	6010
CHROMIUM	<25.5	mg/Kg	25.5	03/01/94	6010
LEAD	8.23	mg/Kg	2.55	03/01/94	7421
MERCURY	<.0204	mg/Kg	.0204	03/03/94	7470
SELENIUM	<2.55	mg/Kg	2.55	03/02/94	7740
SILVER	<25.5	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 0156HA08(000.0)
SAMPLE NUMBER- 709
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1050
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.10	%	0.01	01/24/94	
ARSENIC	<2.58	mg/Kg	2.58	03/01/94	7060
BARIUM	64.0	mg/Kg	25.8	03/01/94	6010
CADMIUM	<5.16	mg/Kg	5.16	03/01/94	6010
CHROMIUM	<25.8	mg/Kg	25.8	03/01/94	6010
LEAD	8.27	mg/Kg	2.58	03/01/94	7421
MERCURY	<.0206	mg/Kg	.0206	03/03/94	7470
SELENIUM	<2.58	mg/Kg	2.58	03/02/94	7740
SILVER	<25.8	mg/Kg	25.8	03/01/94	6010

SAMPLE ID- 0156HA08(002.0)
SAMPLE NUMBER- 710
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1055
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.10	%	0.01	01/24/94	
ARSENIC	<2.55	mg/Kg	2.55	03/01/94	7060
BARIUM	67.4	mg/Kg	25.5	03/01/94	6010
CADMIUM	<5.11	mg/Kg	5.11	03/01/94	6010
CHROMIUM	<25.5	mg/Kg	25.5	03/01/94	6010
LEAD	9.49	mg/Kg	2.55	03/01/94	7421
MERCURY	<.0204	mg/Kg	.0204	03/03/94	7470
SELENIUM	<2.55	mg/Kg	2.55	03/02/94	7740
SILVER	<25.5	mg/Kg	25.5	03/01/94	6010

SAMPLE ID- 2730MW04(WATER)
SAMPLE NUMBER- 711
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/12/94
TIME SAMPLED- 0830
DATE RECEIVED- 01/13/94

TIME RECEIVED- 0945
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
TOTAL DISSOLVED SOLIDS	30514	mg/L	1.00	01/14/94	160.1
ARSENIC	0.006	mg/L	0.005	03/02/94	7060
ARSENIC-DISSOLVED	0.013	mg/L	0.005	03/04/94	7060
BARIUM	0.10	mg/L	0.05	02/23/94	6010
BARIUM-DISSOLVED	< 0.05	mg/L	0.05	03/03/94	6010
CADMIUM	< 0.005	mg/L	0.005	02/23/94	6010
CADMIUM-DISSOLVED	< 0.005	mg/L	0.005	03/03/94	6010
CHROMIUM	< 0.025	mg/L	0.025	02/23/94	6010
CHROMIUM-DISSOLVED	0.034	mg/L	0.025	03/03/94	6010
LEAD	< 0.003	mg/L	0.003	03/02/94	7421
LEAD-DISSOLVED	< 0.003	mg/L	0.003	03/04/94	7421
MERCURY	< 0.0002	mg/L	0.0002	02/04/94	7470
MERCURY-DISSOLVED	< 0.0002	mg/L	0.0002	01/17/94	7470
SELENIUM	0.214	mg/L	0.005	03/09/94	7740
SELENIUM-DISSOLVED	< 0.125	mg/L	0.125	03/17/94	7740
SILVER	< 0.025	mg/L	0.025	02/23/94	6010
SILVER-DISSOLVED	< 0.025	mg/L	0.025	03/03/94	6010

JAMES H. CARR & ASSOCIATES, INC.

Environmental Services

919 True Street ▪ P.O. Box 90209 ▪ Columbia, SC 29290
(803) 776-7789 ▪ (800) 435-3995 ▪ FAX (803) 783-2192

FINAL REPORT OF ANALYSES

SVERDRUP ENVIRONMENTAL, INC.
13723 RIVERPORT DRIVE
MARYLAND HEIGHTS, MO 63043
Attn: MS. MARLA FASTENAU

REPORT DATE: 04/18/94
PROJECT NAME- 85-5

SAMPLE ID--0156HA09(WATER)EB
SAMPLE NUMBER- 676
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1330
DATE RECEIVED- 01/11/94

TIME RECEIVED- 0930
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/07/94	8140
AZINPHOS METHYL	<	15	ug/L	15		
BOLSTAR	<	1.5	ug/L	1.5		
CHLORPYRIFOS	<	3.0	ug/L	3.0		
COUMAPHOS	<	15	ug/L	15		
DEMETON	<	2.5	ug/L	2.5		
DIAZINON	<	6.0	ug/L	6.0		
DICHLORVOS	<	1.0	ug/L	1.0		
DISULFOTON	<	2.0	ug/L	2.0		
ETHOPROP	<	2.5	ug/L	2.5		
FENSULFOTHION	<	15.0	ug/L	15.0		
FENTHION	<	1.0	ug/L	1.0		
MERPHOS	<	2.5	ug/L	2.5		
MEVINPHOS	<	3.0	ug/L	3.0		
NALED	<	1.0	ug/L	1.0		
METHYL PARATHION	<	0.3	ug/L	0.3		
PHORATE	<	1.5	ug/L	1.5		
RONNEL	<	3.0	ug/L	3.0		
STIROPHOS	<	50.0	ug/L	50.0		
TOKUTHION	<	5.0	ug/L	5.0		
TRICHLORONATE	<	1.5	ug/L	1.5		
SURROGATE TRIPHENYLPHOSPHATE		21.5	% Recovery	0		

SAMPLE ID- 0156HA02(000.0)
SAMPLE NUMBER- 678
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1004
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		97.3	% Recovery			

6.3%

SAMPLE ID- 0156HA02(002.0)
SAMPLE NUMBER- 679
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1014
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

3.5%

CONTINUATION OF DATA FOR SAMPLE NUMBER 679

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		102	% Recovery			

SAMPLE ID- 0156HA03(002.0)
SAMPLE NUMBER- 680
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1028
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

3.5%

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		98.2	% Recovery			

SAMPLE ID- 0156HA04(002.0)
SAMPLE NUMBER- 681
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1025
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		98.2	% Recovery			

2.7/

SAMPLE ID- 0156HA03(000.0)
SAMPLE NUMBER- 682
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1026
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		90.6	% Recovery			

6.2%

SAMPLE ID- 0156HA04(000.0)
SAMPLE NUMBER- 683
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1021
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

5.6%

CONTINUATION OF DATA FOR SAMPLE NUMBER 683

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		93.6	% Recovery			

SAMPLE ID- 0156HA07(000.0)

SAMPLE NUMBER- 684
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1051
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		6.31
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

CONTINUATION OF DATA FOR SAMPLE NUMBER 684

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		106	% Recovery			

SAMPLE ID- 0156HA07(002.0)
SAMPLE NUMBER- 685
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1053
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		100	% Recovery			

3.8 1.

SAMPLE ID- 0156HA07(004.0)
SAMPLE NUMBER- 686
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1123
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		95.5	% Recovery			

3.0%

SAMPLE ID- 0156HA08(003.0)
SAMPLE NUMBER- 689
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1222
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

3.2%

CONTINUATION OF DATA FOR SAMPLE NUMBER 689

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		98.2	% Recovery			

SAMPLE ID- 0156HA09(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 690
TIME SAMPLED- 1150
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

3.2%

CONTINUATION OF DATA FOR SAMPLE NUMBER 690

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		104	% Recovery			

SAMPLE ID- 0156HA09(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 691
TIME SAMPLED- 1155
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		105	% Recovery			

4.7%

SAMPLE ID- 0156HA09(002.0)QC
SAMPLE NUMBER- 692
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		104	% Recovery			

4.4%

SAMPLE ID- 0156HA09(004.0)
SAMPLE NUMBER- 693
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1204
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

2.9%

CONTINUATION OF DATA FOR SAMPLE NUMBER 693

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		108	% Recovery			

SAMPLE ID- 0156HA10(000.0)
SAMPLE NUMBER- 694
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

381

CONTINUATION OF DATA FOR SAMPLE NUMBER 694

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		101	% Recovery			

SAMPLE ID- 0156HA10(000.0)QC

SAMPLE NUMBER- 695
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		105	% Recovery			

3.51

SAMPLE ID- 0156HA10(002.0)
SAMPLE NUMBER- 696
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1156
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		110	% Recovery			

4.7%

SAMPLE ID- 0156HA10(004.0)
SAMPLE NUMBER- 697
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1206
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

4.7%

CONTINUATION OF DATA FOR SAMPLE NUMBER 697

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		102	% Recovery			

SAMPLE ID- 0156HA01(000.0)

SAMPLE NUMBER- 698
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1000
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

5.8%

CONTINUATION OF DATA FOR SAMPLE NUMBER 698

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		99.1	% Recovery			

SAMPLE ID- 0156HA01(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 699
TIME SAMPLED- 1011
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140 3.5
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		98.2	% Recovery			

SAMPLE ID- 0156HA05(000.0)
SAMPLE NUMBER- 700
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1347
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140 3.8
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		102	% Recovery			

SAMPLE ID- 0156HA05(002.0)
SAMPLE NUMBER- 701
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140 3.9
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

CONTINUATION OF DATA FOR SAMPLE NUMBER 701

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		99.7	% Recovery			

SAMPLE ID- 0156HA05(002.0)QC
SAMPLE NUMBER- 702
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

3.7%

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		96.4	% Recovery			

SAMPLE ID- 0156HA05(003.0)
SAMPLE NUMBER- 703
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1410
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		96.4	% Recovery			

3.1

SAMPLE ID- 0156HA06(000.0)
SAMPLE NUMBER- 704
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		103	% Recovery			

3.3

SAMPLE ID- 0156HA06(000.0)MS
SAMPLE NUMBER- 705
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

3.4%

CONTINUATION OF DATA FOR SAMPLE NUMBER 705

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		99.1	% Recovery			

SAMPLE ID- 0156HA06(000.0)MSD
SAMPLE NUMBER- 706
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

5.3 %

CONTINUATION OF DATA FOR SAMPLE NUMBER 706

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		94.5	% Recovery			

SAMPLE ID- 0156HA06(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 707
TIME SAMPLED- 1357
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		106	% Recovery			

4.0%

SAMPLE ID- 0156HA06(004.0)

SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		97.3	% Recovery			

3.3/

SAMPLE ID- 0156HA08(000.0)

SAMPLE NUMBER- 709
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1050
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		

3.3/

CONTINUATION OF DATA FOR SAMPLE NUMBER 709

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		103	% Recovery			

SAMPLE ID- 0156HA08(002.0)
SAMPLE NUMBER- 710
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1055
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/06/94	8140
AZINPHOS METHYL	<	1005	ug/Kg	1005		
BOLSTAR	<	101	ug/Kg	101		
CHLORPYRIFOS	<	201	ug/Kg	201		
COUMAPHOS	<	1005	ug/Kg	1005		
DEMETON	<	168	ug/Kg	168		
DIAZINON	<	402	ug/Kg	402		
DICHLORVOS	<	67	ug/Kg	67		
DISULFOTON	<	134	ug/Kg	134		
ETHOPROP	<	168	ug/Kg	168		
FENSULFOTHION	<	1005	ug/Kg	1005		
FENTHION	<	67	ug/Kg	67		
MERPHOS	<	168	ug/Kg	168		
MEVINPHOS	<	201	ug/Kg	201		
NALED	<	182	ug/Kg	182		
METHYL PARATHION	<	33	ug/Kg	33		
PHORATE	<	101	ug/Kg	101		
RONNEL	<	201	ug/Kg	201		

3.67

CONTINUATION OF DATA FOR SAMPLE NUMBER 710

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3350	ug/Kg	3350		
TOKUTHION	<	335	ug/Kg	335		
TRICHLORONATE	<	101	ug/Kg	101		
SURROGATE TRIPHENYLPHOSPHATE		98.2	% Recovery			

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR _____
James H. Carr

JAMES H. CARR & ASSOCIATES, INC.

Environmental Services

919 True Street ▪ P.O. Box 90209 ▪ Columbia, SC 29290
(803) 776-7789 ▪ (800) 435-3995 ▪ FAX (803) 783-2192

Dry Weight corrected

FINAL REPORT OF ANALYSES

SVERDRUP ENVIRONMENTAL, INC.
13723 RIVERPORT DRIVE
MARYLAND HEIGHTS, MO 63043
Attn: MS. MARLA FASTENAU

REPORT DATE: 05/20/94
PROJECT NAME- 85-5

SAMPLE ID- 0156HA09(WATER)EB

SAMPLE NUMBER- 676
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1330
DATE RECEIVED- 01/11/94

TIME RECEIVED- 0930
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/07/94	8140
AZINPHOS METHYL	< 15	ug/L	15		
BOLSTAR	< 1.5	ug/L	1.5		
CHLORPYRIFOS	< 3.0	ug/L	3.0		
COUMAPHOS	< 15	ug/L	15		
DEMETON	< 2.5	ug/L	2.5		
DIAZINON	< 6.0	ug/L	6.0		
DICHLORVOS	< 1.0	ug/L	1.0		
DISULFOTON	< 2.0	ug/L	2.0		
ETHOPROP	< 2.5	ug/L	2.5		
FENSULFOTHION	< 15.0	ug/L	15.0		
FENTHION	< 1.0	ug/L	1.0		
MERPHOS	< 2.5	ug/L	2.5		
MEVINPHOS	< 3.0	ug/L	3.0		
NALED	< 1.0	ug/L	1.0		
METHYL PARATHION	< 0.3	ug/L	0.3		
PHORATE	< 1.5	ug/L	1.5		
RONNEL	< 3.0	ug/L	3.0		
STIROPHOS	< 50.0	ug/L	50.0		
TOKUTHION	< 5.0	ug/L	5.0		
TRICHLORONATE	< 1.5	ug/L	1.5		
SURROGATE TRIPHENYLPHOSPHATE	21.5	0 % Recovery	0		

SAMPLE ID- 0156HA02(000.0)

SAMPLE NUMBER- 678
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1004
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1070	ug/Kg	1070		
BOLSTAR	<	108	ug/Kg	108		
CHLORPYRIFOS	<	215	ug/Kg	215		
COUMAPHOS	<	1070	ug/Kg	1070		
DEMETON	<	179	ug/Kg	179		
DIAZINON	<	429	ug/Kg	429		
DICHLORVOS	<	71.5	ug/Kg	71.5		
DISULFOTON	<	143	ug/Kg	143		
ETHOPROP	<	179	ug/Kg	179		
FENSULFOTHION	<	1070	ug/Kg	1070		
FENTHION	<	71.5	ug/Kg	71.5		
MERPHOS	<	179	ug/Kg	179		
MEVINPHOS	<	215	ug/Kg	215		
NALED	<	194	ug/Kg	194		
METHYL PARATHION	<	35.2	ug/Kg	35.2		
PHORATE	<	108	ug/Kg	108		
RONNEL	<	215	ug/Kg	215		
STIROPHOS	<	3580	ug/Kg	3580		
TOKUTHION	<	358	ug/Kg	358		
TRICHLORONATE	<	108	ug/Kg	108		
SURROGATE TRIPHENYLPHOSPHATE		97.3	% Recovery			

SAMPLE ID- 0156HA02(002.0)

SAMPLE NUMBER- 679
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1014
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1040	ug/Kg	1040		
BOLSTAR	<	105	ug/Kg	105		
CHLORPYRIFOS	<	208	ug/Kg	208		
COUMAPHOS	<	1040	ug/Kg	1040		
DEMETON	<	174	ug/Kg	174		
DIAZINON	<	417	ug/Kg	417		

CONTINUATION OF DATA FOR SAMPLE NUMBER 679

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	69.4	ug/Kg	69.4		
DISULFOTON	<	139	ug/Kg	139		
ETHOPROP	<	174	ug/Kg	174		
FENSULFOTHION	<	1040	ug/Kg	1040		
FENTHION	<	69.4	ug/Kg	69.4		
MERPHOS	<	174	ug/Kg	174		
MEVINPHOS	<	208	ug/Kg	208		
NALED	<	189	ug/Kg	189		
METHYL PARATHION	<	34.2	ug/Kg	34.2		
PHORATE	<	105	ug/Kg	105		
RONNEL	<	208	ug/Kg	208		
STIROPHOS	<	3470	ug/Kg	3470		
TOKUTHION	<	347	ug/Kg	347		
TRICHLORONATE	<	105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE		102	% Recovery			

SAMPLE ID- 0156HA03(002.0)

SAMPLE NUMBER- 680
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1028
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1040	ug/Kg	1040		
BOLSTAR	<	105	ug/Kg	105		
CHLORPYRIFOS	<	208	ug/Kg	208		
COUMAPHOS	<	1040	ug/Kg	1040		
DEMETON	<	174	ug/Kg	174		
DIAZINON	<	417	ug/Kg	417		
DICHLORVOS	<	69.4	ug/Kg	69.4		
DISULFOTON	<	139	ug/Kg	139		
ETHOPROP	<	174	ug/Kg	174		
FENSULFOTHION	<	1040	ug/Kg	1040		
FENTHION	<	69.4	ug/Kg	69.4		
MERPHOS	<	174	ug/Kg	174		
MEVINPHOS	<	208	ug/Kg	208		
NALED	<	189	ug/Kg	189		
METHYL PARATHION	<	34.2	ug/Kg	34.2		
PHORATE	<	105	ug/Kg	105		
RONNEL	<	208	ug/Kg	208		

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<	3470	ug/Kg	3470		
TOKUTHION	<	347	ug/Kg	347		
TRICHLORONATE	<	105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE		98.2	% Recovery			

SAMPLE ID- 0156HA04(002.0)

SAMPLE NUMBER- 681
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1025
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1030	ug/Kg	1030		
BOLSTAR	<	104	ug/Kg	104		
CHLORPYRIFOS	<	207	ug/Kg	207		
COUMAPHOS	<	1030	ug/Kg	1030		
DEMETON	<	173	ug/Kg	173		
DIAZINON	<	413	ug/Kg	413		
DICHLORVOS	<	68.9	ug/Kg	68.9		
DISULFOTON	<	138	ug/Kg	138		
ETHOPROP	<	173	ug/Kg	173		
FENSULFOTHION	<	1030	ug/Kg	1030		
FENTHION	<	68.9	ug/Kg	68.9		
MERPHOS	<	173	ug/Kg	173		
MEVINPHOS	<	207	ug/Kg	207		
NALED	<	187	ug/Kg	187		
METHYL PARATHION	<	34.9	ug/Kg	34.9		
PHORATE	<	104	ug/Kg	104		
RONNEL	<	207	ug/Kg	207		
STIROPHOS	<	3440	ug/Kg	3440		
TOKUTHION	<	344	ug/Kg	344		
TRICHLORONATE	<	104	ug/Kg	104		
SURROGATE TRIPHENYLPHOSPHATE		98.2	% Recovery			

SAMPLE ID- 0156HA03(000.0)

SAMPLE NUMBER- 682
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1026
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1070	ug/Kg	1070		
BOLSTAR	<	108	ug/Kg	108		
CHLORPYRIFOS	<	214	ug/Kg	214		
COUMAPHOS	<	1070	ug/Kg	1070		
DEMETON	<	179	ug/Kg	179		
DIAZINON	<	429	ug/Kg	429		
DICHLORVOS	<	71.4	ug/Kg	71.4		
DISULFOTON	<	143	ug/Kg	143		
ETHOPROP	<	179	ug/Kg	179		
FENSULFOTHION	<	1070	ug/Kg	1070		
FENTHION	<	71.4	ug/Kg	71.4		
MERPHOS	<	179	ug/Kg	179		
MEVINPHOS	<	214	ug/Kg	214		
NALED	<	194	ug/Kg	194		
METHYL PARATHION	<	35.2	ug/Kg	35.2		
PHORATE	<	108	ug/Kg	108		
RONNEL	<	214	ug/Kg	214		
STIROPHOS	<	3570	ug/Kg	3570		
TOKUTHION	<	357	ug/Kg	357		
TRICHLORONATE	<	108	ug/Kg	108		
SURROGATE TRIPHENYLPHOSPHATE		90.6	% Recovery			

SAMPLE ID- 0156HA04(000.0)

SAMPLE NUMBER- 683
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1021
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES					02/05/94	8140
AZINPHOS METHYL	<	1070	ug/Kg	1070		
BOLSTAR	<	107	ug/Kg	107		
CHLORPYRIFOS	<	213	ug/Kg	213		
COUMAPHOS	<	1070	ug/Kg	1070		
DEMETON	<	179	ug/Kg	179		
DIAZINON	<	426	ug/Kg	426		

CONTINUATION OF DATA FOR SAMPLE NUMBER 683

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<	71	ug/Kg	71		
DISULFOTON	<	139	ug/Kg	139		
ETHOPROP	<	179	ug/Kg	179		
FENSULFOTHION	<	1070	ug/Kg	1070		
FENTHION	<	71	ug/Kg	71		
MERPHOS	<	179	ug/Kg	179		
MEVINPHOS	<	213	ug/Kg	213		
NALED	<	193	ug/Kg	193		
METHYL PARATHION	<	35	ug/Kg	35		
PHORATE	<	107	ug/Kg	107		
RONNEL	<	213	ug/Kg	213		
STIROPHOS	<	3550	ug/Kg	3550		
TOKUTHION	<	355	ug/Kg	355		
TRICHLORONATE	<	107	ug/Kg	107		
SURROGATE TRIPHENYLPHOSPHATE		93.6	% Recovery			

SAMPLE ID- 0156HA07(000.0)
SAMPLE NUMBER- 684
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1051
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1070	ug/Kg	1070		
BOLSTAR	<108	ug/Kg	108		
CHLORPYRIFOS	<214.	ug/Kg	214.		
COUMAPHOS	<1070	ug/Kg	1070		
DEMETON	<179.	ug/Kg	179.		
DIAZINON	<429.	ug/Kg	429.		
DICHLORVOS	<71.5	ug/Kg	71.5		
DISULFOTON	<143.	ug/Kg	143.		
ETHOPROP	<179.	ug/Kg	179.		
FENSULFOTHION	<1070	ug/Kg	1070		
FENTHION	<71.5	ug/Kg	71.5		
MERPHOS	<179.	ug/Kg	179.		
MEVINPHOS	<214.	ug/Kg	214.		
NALED	<194.	ug/Kg	194.		
METHYL PARATHION	<35.2	ug/Kg	35.2		
PHORATE	<108	ug/Kg	108		
RONNEL	<214.	ug/Kg	214.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 684

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<3580	ug/Kg	3580		
TOKUTHION	<358	ug/Kg	358		
TRICHLORONATE	<108	ug/Kg	108		
SURROGATE TRIPHENYLPHOSPHATE	106	% Recovery			

SAMPLE ID- 0156HA07(002.0)
SAMPLE NUMBER- 685
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1053
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105	ug/Kg	105		
CHLORPYRIFOS	<209	ug/Kg	209		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<175	ug/Kg	175		
DIAZINON	<418	ug/Kg	418		
DICHLORVOS	<69.6	ug/Kg	69.6		
DISULFOTON	<139.	ug/Kg	139.		
ETHOPROP	<175	ug/Kg	175		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.6	ug/Kg	69.6		
MERPHOS	<175	ug/Kg	175		
MEVINPHOS	<209	ug/Kg	209		
NALED	<189.	ug/Kg	189.		
METHYL PARATHION	<34.3	ug/Kg	34.3		
PHORATE	<105	ug/Kg	105		
RONNEL	<209	ug/Kg	209		
STIROPHOS	<3480	ug/Kg	3480		
TOKUTHION	<348.	ug/Kg	348.		
TRICHLORONATE	<105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE	100	% Recovery			

SAMPLE ID- 0156HA07(004.0)

SAMPLE NUMBER- 686
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1123
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<207.	ug/Kg	207.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<173.	ug/Kg	173.		
DIAZINON	<414.	ug/Kg	414.		
DICHLORVOS	<69.1	ug/Kg	69.1		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<173.	ug/Kg	173.		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.1	ug/Kg	69.1		
MERPHOS	<173.	ug/Kg	173.		
MEVINPHOS	<207.	ug/Kg	207.		
NALED	<188	ug/Kg	188		
METHYL PARATHION	<34.0	ug/Kg	34.0		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<207.	ug/Kg	207.		
STIROPHOS	<3450	ug/Kg	3450		
TOKUTHION	<345.	ug/Kg	345.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	95.5	% Recovery			

SAMPLE ID- 0156HA08(003.0)

SAMPLE NUMBER- 689
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1222
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<208	ug/Kg	208		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174	ug/Kg	174		
DIAZINON	<415.	ug/Kg	415.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 689

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<69.2	ug/Kg	69.2		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<174	ug/Kg	174		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.2	ug/Kg	69.2		
MERPHOS	<174	ug/Kg	174		
MEVINPHOS	<208	ug/Kg	208		
NALED	<188.	ug/Kg	188.		
METHYL PARATHION	<34.1	ug/Kg	34.1		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<208	ug/Kg	208		
STIROPHOS	<3460	ug/Kg	3460		
TOKUTHION	<346.	ug/Kg	346.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	98.2	% Recovery			

SAMPLE ID- 0156HA09(000.0)

SAMPLE NUMBER- 690
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1150
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<208	ug/Kg	208		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174	ug/Kg	174		
DIAZINON	<415.	ug/Kg	415.		
DICHLORVOS	<69.2	ug/Kg	69.2		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<174	ug/Kg	174		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.2	ug/Kg	69.2		
MERPHOS	<174	ug/Kg	174		
MEVINPHOS	<208	ug/Kg	208		
NALED	<188.	ug/Kg	188.		
METHYL PARATHION	<34.1	ug/Kg	34.1		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<208	ug/Kg	208		

CONTINUATION OF DATA FOR SAMPLE NUMBER 690

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<3460	ug/Kg	3460		
TOKUTHION	<346.	ug/Kg	346.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	104	% Recovery			

SAMPLE ID- 0156HA09(002.0)

SAMPLE NUMBER- 691
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1050	ug/Kg	1050		
BOLSTAR	<106	ug/Kg	106		
CHLORPYRIFOS	<211	ug/Kg	211		
COUMAPHOS	<1050	ug/Kg	1050		
DEMETON	<176.	ug/Kg	176.		
DIAZINON	<422	ug/Kg	422		
DICHLORVOS	<70.3	ug/Kg	70.3		
DISULFOTON	<141	ug/Kg	141		
ETHOPROP	<176.	ug/Kg	176.		
FENSULFOTHION	<1050	ug/Kg	1050		
FENTHION	<70.3	ug/Kg	70.3		
MERPHOS	<176.	ug/Kg	176.		
MEVINPHOS	<211	ug/Kg	211		
NALED	<191	ug/Kg	191		
METHYL PARATHION	<34.6	ug/Kg	34.6		
PHORATE	<106	ug/Kg	106		
RONNEL	<211	ug/Kg	211		
STIROPHOS	<3520	ug/Kg	3520		
TOKUTHION	<352	ug/Kg	352		
TRICHLORONATE	<106	ug/Kg	106		
SURROGATE TRIPHENYLPHOSPHATE	105	% Recovery			

SAMPLE ID- 0156HA09(002.0)QC
SAMPLE NUMBER- 692
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1050	ug/Kg	1050		
BOLSTAR	<106	ug/Kg	106		
CHLORPYRIFOS	<210.	ug/Kg	210.		
COUMAPHOS	<1050	ug/Kg	1050		
DEMETON	<176	ug/Kg	176		
DIAZINON	<420.	ug/Kg	420.		
DICHLORVOS	<70.1	ug/Kg	70.1		
DISULFOTON	<140.	ug/Kg	140.		
ETHOPROP	<176	ug/Kg	176		
FENSULFOTHION	<1050	ug/Kg	1050		
FENTHION	<70.1	ug/Kg	70.1		
MERPHOS	<176	ug/Kg	176		
MEVINPHOS	<210.	ug/Kg	210.		
NALED	<190.	ug/Kg	190.		
METHYL PARATHION	<34.5	ug/Kg	34.5		
PHORATE	<106	ug/Kg	106		
RONNEL	<210.	ug/Kg	210.		
STIROPHOS	<3500	ug/Kg	3500		
TOKUTHION	<350.	ug/Kg	350.		
TRICHLORONATE	<106	ug/Kg	106		
SURROGATE TRIPHENYLPHOSPHATE	104	% Recovery			

SAMPLE ID- 0156HA09(004.0)
SAMPLE NUMBER- 693
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1204
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<207.	ug/Kg	207.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<173.	ug/Kg	173.		
DIAZINON	<414.	ug/Kg	414.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 693

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<69.0	ug/Kg	69.0		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<173.	ug/Kg	173.		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.0	ug/Kg	69.0		
MERPHOS	<173.	ug/Kg	173.		
MEVINPHOS	<207.	ug/Kg	207.		
NALED	<187.	ug/Kg	187.		
METHYL PARATHION	<34.0	ug/Kg	34.0		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<207.	ug/Kg	207.		
STIROPHOS	<3450	ug/Kg	3450		
TOKUTHION	<345.	ug/Kg	345.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	108	% Recovery			

SAMPLE ID- 0156HA10(000.0)

SAMPLE NUMBER- 694
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105	ug/Kg	105		
CHLORPYRIFOS	<209	ug/Kg	209		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<175	ug/Kg	175		
DIAZINON	<418	ug/Kg	418		
DICHLORVOS	<69.6	ug/Kg	69.6		
DISULFOTON	<139.	ug/Kg	139.		
ETHOPROP	<175	ug/Kg	175		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.6	ug/Kg	69.6		
MERPHOS	<175	ug/Kg	175		
MEVINPHOS	<209	ug/Kg	209		
NALED	<189.	ug/Kg	189.		
METHYL PARATHION	<34.3	ug/Kg	34.3		
PHORATE	<105	ug/Kg	105		
RONNEL	<209	ug/Kg	209		

CONTINUATION OF DATA FOR SAMPLE NUMBER 694

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<3480	ug/Kg	3480		
TOKUTHION	<348.	ug/Kg	348.		
TRICHLORONATE	<105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE	101	% Recovery			

SAMPLE ID- 0156HA10(000.0)QC
SAMPLE NUMBER- 695
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105	ug/Kg	105		
CHLORPYRIFOS	<208.	ug/Kg	208.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174.	ug/Kg	174.		
DIAZINON	<416.	ug/Kg	416.		
DICHLORVOS	<69.4	ug/Kg	69.4		
DISULFOTON	<139	ug/Kg	139		
ETHOPROP	<174.	ug/Kg	174.		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.4	ug/Kg	69.4		
MERPHOS	<174.	ug/Kg	174.		
MEVINPHOS	<208.	ug/Kg	208.		
NALED	<189	ug/Kg	189		
METHYL PARATHION	<34.2	ug/Kg	34.2		
PHORATE	<105	ug/Kg	105		
RONNEL	<208.	ug/Kg	208.		
STIROPHOS	<3470	ug/Kg	3470		
TOKUTHION	<347.	ug/Kg	347.		
TRICHLORONATE	<105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE	105	% Recovery			

SAMPLE ID- 0156HA10(002.0)

SAMPLE NUMBER- 696
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1156
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1050	ug/Kg	1050		
BOLSTAR	<106	ug/Kg	106		
CHLORPYRIFOS	<211	ug/Kg	211		
COUMAPHOS	<1050	ug/Kg	1050		
DEMETON	<176.	ug/Kg	176.		
DIAZINON	<422	ug/Kg	422		
DICHLORVOS	<70.3	ug/Kg	70.3		
DISULFOTON	<141	ug/Kg	141		
ETHOPROP	<176.	ug/Kg	176.		
FENSULFOTHION	<1050	ug/Kg	1050		
FENTHION	<70.3	ug/Kg	70.3		
MERPHOS	<176.	ug/Kg	176.		
MEVINPHOS	<211	ug/Kg	211		
NALED	<191	ug/Kg	191		
METHYL PARATHION	<34.6	ug/Kg	34.6		
PHORATE	<106	ug/Kg	106		
RONNEL	<211	ug/Kg	211		
STIROPHOS	<3520	ug/Kg	3520		
TOKUTHION	<352	ug/Kg	352		
TRICHLORONATE	<106	ug/Kg	106		
SURROGATE TRIPHENYLPHOSPHATE	110	% Recovery			

SAMPLE ID- 0156HA10(004.0)

SAMPLE NUMBER- 697
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1206
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/05/94	8140
AZINPHOS METHYL	<1050	ug/Kg	1050		
BOLSTAR	<106	ug/Kg	106		
CHLORPYRIFOS	<211	ug/Kg	211		
COUMAPHOS	<1050	ug/Kg	1050		
DEMETON	<176.	ug/Kg	176.		
DIAZINON	<422	ug/Kg	422		

CONTINUATION OF DATA FOR SAMPLE NUMBER 697

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<70.3	ug/Kg	70.3		
DISULFOTON	<141	ug/Kg	141		
ETHOPROP	<176.	ug/Kg	176.		
FENSULFOTHION	<1050	ug/Kg	1050		
FENTHION	<70.3	ug/Kg	70.3		
MERPHOS	<176.	ug/Kg	176.		
MEVINPHOS	<211	ug/Kg	211		
NALED	<191	ug/Kg	191		
METHYL PARATHION	<34.6	ug/Kg	34.6		
PHORATE	<106	ug/Kg	106		
RONNEL	<211	ug/Kg	211		
STIROPHOS	<3520	ug/Kg	3520		
TOKUTHION	<352	ug/Kg	352		
TRICHLORONATE	<106	ug/Kg	106		
SURROGATE TRIPHENYLPHOSPHATE	102	% Recovery			

SAMPLE ID- 0156HA01(000.0)

SAMPLE NUMBER- 698
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1000
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1070	ug/Kg	1070		
BOLSTAR	<107.	ug/Kg	107.		
CHLORPYRIFOS	<213.	ug/Kg	213.		
COUMAPHOS	<1070	ug/Kg	1070		
DEMETON	<178.	ug/Kg	178.		
DIAZINON	<427	ug/Kg	427		
DICHLORVOS	<71.1	ug/Kg	71.1		
DISULFOTON	<142.	ug/Kg	142.		
ETHOPROP	<178.	ug/Kg	178.		
FENSULFOTHION	<1070	ug/Kg	1070		
FENTHION	<71.1	ug/Kg	71.1		
MERPHOS	<178.	ug/Kg	178.		
MEVINPHOS	<213.	ug/Kg	213.		
NALED	<193.	ug/Kg	193.		
METHYL PARATHION	<35.0	ug/Kg	35.0		
PHORATE	<107.	ug/Kg	107.		
RONNEL	<213.	ug/Kg	213.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 698

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<3560	ug/Kg	3560		
TOKUTHION	<356	ug/Kg	356		
TRICHLORONATE	<107.	ug/Kg	107.		
SURROGATE TRIPHENYLPHOSPHATE	99.1	% Recovery			

SAMPLE ID- 0156HA01(002.0)
SAMPLE NUMBER- 699
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1011
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105	ug/Kg	105		
CHLORPYRIFOS	<208.	ug/Kg	208.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174.	ug/Kg	174.		
DIAZINON	<416.	ug/Kg	416.		
DICHLORVOS	<69.4	ug/Kg	69.4		
DISULFOTON	<139	ug/Kg	139		
ETHOPROP	<174.	ug/Kg	174.		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.4	ug/Kg	69.4		
MERPHOS	<174.	ug/Kg	174.		
MEVINPHOS	<208.	ug/Kg	208.		
NALED	<189	ug/Kg	189		
METHYL PARATHION	<34.2	ug/Kg	34.2		
PHORATE	<105	ug/Kg	105		
RONNEL	<208.	ug/Kg	208.		
STIROPHOS	<3470	ug/Kg	3470		
TOKUTHION	<347.	ug/Kg	347.		
TRICHLORONATE	<105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE	98.2	% Recovery			

SAMPLE ID- 0156HA05(000.0)
SAMPLE NUMBER- 700
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1347
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105	ug/Kg	105		
CHLORPYRIFOS	<209	ug/Kg	209		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<175	ug/Kg	175		
DIAZINON	<418	ug/Kg	418		
DICHLORVOS	<69.6	ug/Kg	69.6		
DISULFOTON	<139.	ug/Kg	139.		
ETHOPROP	<175	ug/Kg	175		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.6	ug/Kg	69.6		
MERPHOS	<175	ug/Kg	175		
MEVINPHOS	<209	ug/Kg	209		
NALED	<189.	ug/Kg	189.		
METHYL PARATHION	<34.3	ug/Kg	34.3		
PHORATE	<105	ug/Kg	105		
RONNEL	<209	ug/Kg	209		
STIROPHOS	<3480	ug/Kg	3480		
TOKUTHION	<348.	ug/Kg	348.		
TRICHLORONATE	<105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE	102	% Recovery			

SAMPLE ID- 0156HA05(002.0)
SAMPLE NUMBER- 701
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105.	ug/Kg	105.		
CHLORPYRIFOS	<209.	ug/Kg	209.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<175	ug/Kg	175		
DIAZINON	<418.	ug/Kg	418.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 701

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<69.7	ug/Kg	69.7		
DISULFOTON	<139.	ug/Kg	139.		
ETHOPROP	<175	ug/Kg	175		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.7	ug/Kg	69.7		
MERPHOS	<175	ug/Kg	175		
MEVINPHOS	<209.	ug/Kg	209.		
NALED	<189.	ug/Kg	189.		
METHYL PARATHION	<34.3	ug/Kg	34.3		
PHORATE	<105.	ug/Kg	105.		
RONNEL	<209.	ug/Kg	209.		
STIROPHOS	<3480	ug/Kg	3480		
TOKUTHION	<348.	ug/Kg	348.		
TRICHLORONATE	<105.	ug/Kg	105.		
SURROGATE TRIPHENYLPHOSPHATE	99.7	% Recovery			

SAMPLE ID- 0156HA05(002.0)QC
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 702
TIME SAMPLED- 1359
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105	ug/Kg	105		
CHLORPYRIFOS	<209	ug/Kg	209		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174.	ug/Kg	174.		
DIAZINON	<417.	ug/Kg	417.		
DICHLORVOS	<69.6	ug/Kg	69.6		
DISULFOTON	<139.	ug/Kg	139.		
ETHOPROP	<174.	ug/Kg	174.		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.6	ug/Kg	69.6		
MERPHOS	<174.	ug/Kg	174.		
MEVINPHOS	<209	ug/Kg	209		
NALED	<189	ug/Kg	189		
METHYL PARATHION	<34.3	ug/Kg	34.3		
PHORATE	<105	ug/Kg	105		
RONNEL	<209	ug/Kg	209		

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<3480	ug/Kg	3480		
TOKUTHION	<348	ug/Kg	348		
TRICHLORONATE	<105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE	96.4	% Recovery			

SAMPLE ID- 0156HA05(003.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 703
TIME SAMPLED- 1410
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<207.	ug/Kg	207.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<173.	ug/Kg	173.		
DIAZINON	<415	ug/Kg	415		
DICHLORVOS	<69.1	ug/Kg	69.1		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<173.	ug/Kg	173.		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.1	ug/Kg	69.1		
MERPHOS	<173.	ug/Kg	173.		
MEVINPHOS	<207.	ug/Kg	207.		
NALED	<188	ug/Kg	188		
METHYL PARATHION	<34.0	ug/Kg	34.0		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<207.	ug/Kg	207.		
STIROPHOS	<3460	ug/Kg	3460		
TOKUTHION	<346	ug/Kg	346		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	96.4	% Recovery			

SAMPLE ID- 0156HA06(000.0)
SAMPLE NUMBER- 704
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<208	ug/Kg	208		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174	ug/Kg	174		
DIAZINON	<416	ug/Kg	416		
DICHLORVOS	<69.3	ug/Kg	69.3		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<174	ug/Kg	174		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.3	ug/Kg	69.3		
MERPHOS	<174	ug/Kg	174		
MEVINPHOS	<208	ug/Kg	208		
NALED	<188.	ug/Kg	188.		
METHYL PARATHION	<34.1	ug/Kg	34.1		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<208	ug/Kg	208		
STIROPHOS	<3460	ug/Kg	3460		
TOKUTHION	<346.	ug/Kg	346.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	103	% Recovery			

SAMPLE ID- 0156HA06(000.0)MS
SAMPLE NUMBER- 705
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<208.	ug/Kg	208.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174	ug/Kg	174		
DIAZINON	<416.	ug/Kg	416.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 705

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<69.4	ug/Kg	69.4		
DISULFOTON	<139	ug/Kg	139		
ETHOPROP	<174	ug/Kg	174		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.4	ug/Kg	69.4		
MERPHOS	<174	ug/Kg	174		
MEVINPHOS	<208.	ug/Kg	208.		
NALED	<188.	ug/Kg	188.		
METHYL PARATHION	<34.2	ug/Kg	34.2		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<208.	ug/Kg	208.		
STIROPHOS	<3470	ug/Kg	3470		
TOKUTHION	<347	ug/Kg	347		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	99.1	% Recovery			

SAMPLE ID- 0156HA06(000.0)MSD
SAMPLE NUMBER- 706
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<208	ug/Kg	208		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174	ug/Kg	174		
DIAZINON	<416	ug/Kg	416		
DICHLORVOS	<69.3	ug/Kg	69.3		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<174	ug/Kg	174		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.3	ug/Kg	69.3		
MERPHOS	<174	ug/Kg	174		
MEVINPHOS	<208	ug/Kg	208		
NALED	<188.	ug/Kg	188.		
METHYL PARATHION	<34.1	ug/Kg	34.1		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<208	ug/Kg	208		

CONTINUATION OF DATA FOR SAMPLE NUMBER 706

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<3460	ug/Kg	3460		
TOKUTHION	<346.	ug/Kg	346.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	94.5	% Recovery			

SAMPLE ID- 0156HA06(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 707
TIME SAMPLED- 1357
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1050	ug/Kg	1050		
BOLSTAR	<105.	ug/Kg	105.		
CHLORPYRIFOS	<209.	ug/Kg	209.		
COUMAPHOS	<1050	ug/Kg	1050		
DEMETON	<175.	ug/Kg	175.		
DIAZINON	<419	ug/Kg	419		
DICHLORVOS	<69.8	ug/Kg	69.8		
DISULFOTON	<140	ug/Kg	140		
ETHOPROP	<175.	ug/Kg	175.		
FENSULFOTHION	<1050	ug/Kg	1050		
FENTHION	<69.8	ug/Kg	69.8		
MERPHOS	<175.	ug/Kg	175.		
MEVINPHOS	<209.	ug/Kg	209.		
NALED	<190	ug/Kg	190		
METHYL PARATHION	<34.4	ug/Kg	34.4		
PHORATE	<105.	ug/Kg	105.		
RONNEL	<209.	ug/Kg	209.		
STIROPHOS	<3490	ug/Kg	3490		
TOKUTHION	<349	ug/Kg	349		
TRICHLORONATE	<105.	ug/Kg	105.		
SURROGATE TRIPHENYLPHOSPHATE	106	% Recovery			

SAMPLE ID- 0156HA06(004.0)
SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<208	ug/Kg	208		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174	ug/Kg	174		
DIAZINON	<416	ug/Kg	416		
DICHLORVOS	<69.3	ug/Kg	69.3		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<174	ug/Kg	174		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.3	ug/Kg	69.3		
MERPHOS	<174	ug/Kg	174		
MEVINPHOS	<208	ug/Kg	208		
NALED	<188.	ug/Kg	188.		
METHYL PARATHION	<34.1	ug/Kg	34.1		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<208	ug/Kg	208		
STIROPHOS	<3460	ug/Kg	3460		
TOKUTHION	<346.	ug/Kg	346.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	97.3	% Recovery			

SAMPLE ID- 0156HA08(000.0)
SAMPLE NUMBER- 709
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1050
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<104.	ug/Kg	104.		
CHLORPYRIFOS	<208	ug/Kg	208		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174	ug/Kg	174		
DIAZINON	<416	ug/Kg	416		

CONTINUATION OF DATA FOR SAMPLE NUMBER 709

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DICHLORVOS	<69.3	ug/Kg	69.3		
DISULFOTON	<138.	ug/Kg	138.		
ETHOPROP	<174	ug/Kg	174		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.3	ug/Kg	69.3		
MERPHOS	<174	ug/Kg	174		
MEVINPHOS	<208	ug/Kg	208		
NALED	<188.	ug/Kg	188.		
METHYL PARATHION	<34.1	ug/Kg	34.1		
PHORATE	<104.	ug/Kg	104.		
RONNEL	<208	ug/Kg	208		
STIROPHOS	<3460	ug/Kg	3460		
TOKUTHION	<346.	ug/Kg	346.		
TRICHLORONATE	<104.	ug/Kg	104.		
SURROGATE TRIPHENYLPHOSPHATE	103	% Recovery			

SAMPLE ID- 0156HA08(002.0)
SAMPLE NUMBER- 710
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1055
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ORGANOPHOSPHOROUS PESTICIDES				02/06/94	8140
AZINPHOS METHYL	<1040	ug/Kg	1040		
BOLSTAR	<105	ug/Kg	105		
CHLORPYRIFOS	<208.	ug/Kg	208.		
COUMAPHOS	<1040	ug/Kg	1040		
DEMETON	<174.	ug/Kg	174.		
DIAZINON	<417.	ug/Kg	417.		
DICHLORVOS	<69.5	ug/Kg	69.5		
DISULFOTON	<139.	ug/Kg	139.		
ETHOPROP	<174.	ug/Kg	174.		
FENSULFOTHION	<1040	ug/Kg	1040		
FENTHION	<69.5	ug/Kg	69.5		
MERPHOS	<174.	ug/Kg	174.		
MEVINPHOS	<208.	ug/Kg	208.		
NALED	<189	ug/Kg	189		
METHYL PARATHION	<34.2	ug/Kg	34.2		
PHORATE	<105	ug/Kg	105		
RONNEL	<208.	ug/Kg	208.		

CONTINUATION OF DATA FOR SAMPLE NUMBER 710

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
STIROPHOS	<3480	ug/Kg	3480		
TOKUTHION	<348	ug/Kg	348		
TRICHLORONATE	<105	ug/Kg	105		
SURROGATE TRIPHENYLPHOSPHATE	98.2	% Recovery			

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR _____
James H. Carr

(ORGANO-HERB.) 85-5

Identification	Carr Sample Number
0156HA02(000.0)	678
0156HA02(002.0)	679
0156HA03(002.0)	680
0156HA04(002.0)	681
0156HA03(000.0)	682
0156HA04(000.0)	683
0156HA07(000.0)	684
0156HA07(002.0)	685
0156HA07(004.0)	686
0156HA08(003.0)	689
0156HA09(000.0)	690
0156HA09(002.0)	691
0156HA09(002.0)QC	692
0156HA09(004.0)	693
0156HA10(000.0)	694
0156HA10(000.0)QC	695
0156HA10(002.0)	696
0156HA10(004.0)	697
0156HA01(000.0)	698
0156HA01(002.0)	699
0156HA05(000.0)	700
0156HA05(002.0)	701
0156HA05(002.0)QC	702
0156HA05(003.0)	703
0156HA06(000.0)	704
0156HA06(000.0)MS	705
0156HA06(000.0)MSD	706
0156HA06(002.0)	707
0156HA06(004.0)	708
0156HA08(000.0)	709
0156HA08(002.0)	710
0156HA09(WATER)EB	676

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

919 True Street ▪ P.O. Box 90209 ▪ Columbia, SC 29290
(803) 776-7789 ▪ (800) 435-3995 ▪ FAX (803) 783-2192

PRELIMINARY REPORT OF ANALYSES

SVERDRUP ENVIRONMENTAL, INC.
13723 RIVERPORT DRIVE
MARYLAND HEIGHTS, MO 63043
Attn: MS. MARLA FASTENAU

REPORT DATE: 05/03/94
PROJECT NAME- 85-5

SAMPLE ID- 0156HA02(000.0)
SAMPLE NUMBER- 678
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1004
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

6.3%

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		7.3	% Recovery			

SAMPLE ID- 0156HA02(002.0)
SAMPLE NUMBER- 679
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1014
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

3.5%

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		

CONTINUATION OF DATA FOR SAMPLE NUMBER 679

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		41.8	% Recovery			

SAMPLE ID- 0156HA03(002.0)
SAMPLE NUMBER- 680
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1028
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 3.5 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		45.5	% Recovery			

SAMPLE ID- 0156HA04(002.0)
SAMPLE NUMBER- 681
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1025
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 2.7 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		

CONTINUATION OF DATA FOR SAMPLE NUMBER 681

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		12.5	% Recovery			

SAMPLE ID- 0156HA03(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 682
TIME SAMPLED- 1026
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		5.15	% Recovery			

SAMPLE ID- 0156HA04(000.0)
SAMPLE NUMBER- 683
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1021
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 5.6 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		11.0	% Recovery			

SAMPLE ID- 0156HA07(000.0)
SAMPLE NUMBER- 684
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1051
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 6.3 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		22.0	% Recovery			

SAMPLE ID- 0156HA07(002.0)
SAMPLE NUMBER- 685
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1053
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

3.8%

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		86.5	% Recovery			

SAMPLE ID- 0156HA07(004.0)
SAMPLE NUMBER- 686
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1123
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

3.0%

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		0.0	% Recovery			

SAMPLE ID- 0156HA08(003.0)

SAMPLE NUMBER- 689
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1222
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		74.5	% Recovery			

SAMPLE ID- 0156HA09(000.0)

SAMPLE NUMBER- 690
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1150
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		13.6	% Recovery			

SAMPLE ID- 0156HA09(002.0)
SAMPLE NUMBER- 691
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		3.55	% Recovery			

SAMPLE ID- 0156HA09(002.0)QC
SAMPLE NUMBER- 692
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		18.8	% Recovery			

SAMPLE ID- 0156HA09(004.0)
SAMPLE NUMBER- 693
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1204
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 29 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		8.00	% Recovery			

SAMPLE ID- 0156HA10(000.0)
SAMPLE NUMBER- 694
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 3.3 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		1.30	% Recovery			

SAMPLE ID- 0156HA10(000.0)QC

SAMPLE NUMBER- 695
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		3.45	% Recovery			

SAMPLE ID- 0156HA10(002.0)

SAMPLE NUMBER- 696
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1156
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		2.60	% Recovery			

SAMPLE ID- 0156HA10(004.0)
SAMPLE NUMBER- 697
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1206
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		0.95	% Recovery			

SAMPLE ID- 0156HA01(000.0)
SAMPLE NUMBER- 698
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1000
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		3.75	% Recovery			

SAMPLE ID- 0156HA01(002.0)

SAMPLE NUMBER- 699
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1011
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		0.90	% Recovery			

SAMPLE ID- 0156HA05(000.0)

SAMPLE NUMBER- 700
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1347
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		0.03	% Recovery			

SAMPLE ID- 0156HA05(002.0)

SAMPLE NUMBER- 701
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 3.9 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		0.45	% Recovery			

SAMPLE ID- 0156HA05(002.0)QC

SAMPLE NUMBER- 702
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 3.7 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		0.20	% Recovery			

SAMPLE ID- 0156HA05(003.0)

SAMPLE NUMBER- 703
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1410
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		0.70	% Recovery			

SAMPLE ID- 0156HA06(000.0)

SAMPLE NUMBER- 704
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		2.30	% Recovery			

SAMPLE ID- 0156HA06(000.0)MS

SAMPLE NUMBER- 705
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		1.90	% Recovery			

SAMPLE ID- 0156HA06(000.0)MSD

SAMPLE NUMBER- 706
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		4.30	% Recovery			

SAMPLE ID- 0156HA06(002.0)

SAMPLE NUMBER- 707
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1357
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 4.0%		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		9.95	% Recovery			

SAMPLE ID- 0156HA06(004.0)

SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 3.3%		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		14.7	% Recovery			

SAMPLE ID- 0156HA08(000.0)

SAMPLE NUMBER- 709
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1050
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 3.3 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		12.2	% Recovery			

SAMPLE ID- 0156HA08(002.0)

SAMPLE NUMBER- 710
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1055
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS 3.6 %		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/05/94	8150
2,4-D	<	240	ug/Kg	240		
2,4-DB	<	182	ug/Kg	182		
2,4,5-T	<	40	ug/Kg	40		
2,4,5-TP (Silvex)	<	34	ug/Kg	34		
DALAPON	<	1160	ug/Kg	1160		
DICAMBA	<	54	ug/Kg	54		
DICHLOROPROP	<	130	ug/Kg	130		
DINOSEB	<	14	ug/Kg	14		
MCPA	<	49800	ug/Kg	49800		
MCPP	<	38400	ug/Kg	38400		
SURROGATE DCAA		14.1	% Recovery			

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR _____
James H. Carr

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

919 True Street ▪ P.O. Box 90209 ▪ Columbia, SC 29290
(803) 776-7789 ▪ (800) 435-3995 ▪ FAX (803) 783-2192

FINAL REPORT OF ANALYSES

SVERDRUP ENVIRONMENTAL, INC.
13723 RIVERPORT DRIVE
MARYLAND HEIGHTS, MO 63043
Attn: MS. MARLA FASTENAU

REPORT DATE: 05/03/94
PROJECT NAME- 85-5

SAMPLE ID- 0156HA09(WATER)EB
SAMPLE NUMBER- 676
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1330
DATE RECEIVED- 01/11/94

TIME RECEIVED- 0930
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/03/94	8150
2,4-D	<	12	ug/L	12		
2,4,5-TP (SILVEX)	<	1.7	ug/L	1.7		
2,4-DB	<	9.1	ug/L	9.1		
2,4,5-T	<	2.0	ug/L	2.0		
SURROGATE DCAA		80	% Recovery			

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR _____
James H. Carr

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

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(803) 776-7789 ▪ (800) 435-3995 ▪ FAX (803) 783-2192

PRELIMINARY REPORT OF ANALYSES

SVERDRUP ENVIRONMENTAL, INC.
13723 RIVERPORT DRIVE
MARYLAND HEIGHTS, MO 63043
Attn: MS. MARLA FASTENAU

REPORT DATE: 05/20/94
PROJECT NAME- 85-5

SAMPLE ID- 0156HA09(WATER)EB
SAMPLE NUMBER- 676
SAMPLE MATRIX- GROUNDWATER

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1330
DATE RECEIVED- 01/11/94

TIME RECEIVED- 0930
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
CHLORINATED HERBICIDES					03/03/94	8150
2,4-D	<	12	ug/L	12		
2,4,5-TP (SILVEX)	<	1.7	ug/L	1.7		
2,4-DB	<	9.1	ug/L	9.1		
2,4,5-T	<	2.0	ug/L	2.0		
SURROGATE DCAA		80	% Recovery	0		

SAMPLE ID- 0156HA02(000.0)
SAMPLE NUMBER- 678
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1004
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE		6.30	%	0.01	03/29/94	
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	256	ug/Kg	256		
2,4-DB	<	194	ug/Kg	194		
2,4,5-T	<	42.7	ug/Kg	42.7		
2,4,5-TP (Silvex)	<	36.3	ug/Kg	36.3		
DALAPON	<	1240	ug/Kg	1240		
DICAMBA	<	57.6	ug/Kg	57.6		
DICHLOROPROP	<	139	ug/Kg	139		
DINOSEB	<	14.9	ug/Kg	14.9		

CONTINUATION OF DATA FOR SAMPLE NUMBER 678

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
MCPA	<	53200	ug/Kg	53200		
MCPP	<	41000	ug/Kg	41000		
SURROGATE DCAA		7.3	% Recovery			

SAMPLE ID- 0156HA02(002.0)

SAMPLE NUMBER- 679
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1014
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE		3.50	%	0.01	03/29/94	
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	249	ug/Kg	249		
2,4-DB	<	189	ug/Kg	189		
2,4,5-T	<	41.5	ug/Kg	41.5		
2,4,5-TP (Silvex)	<	35.2	ug/Kg	35.2		
DALAPON	<	1200	ug/Kg	1200		
DICAMBA	<	56	ug/Kg	56		
DICHLOROPROP	<	135	ug/Kg	135		
DINOSEB	<	14.5	ug/Kg	14.5		
MCPA	<	51600	ug/Kg	51600		
MCPP	<	39800	ug/Kg	39800		
SURROGATE DCAA		41.8	% Recovery			

SAMPLE ID- 0156HA03(002.0)

SAMPLE NUMBER- 680
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1028
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE		3.50	%	0.01	03/29/94	
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	249	ug/Kg	249		
2,4-DB	<	189	ug/Kg	189		
2,4,5-T	<	41.5	ug/Kg	41.5		
2,4,5-TP (Silvex)	<	35.2	ug/Kg	35.2		

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
DALAPON	<	1200	ug/Kg	1200		
DICAMBA	<	56	ug/Kg	56		
DICHLOROPROP	<	135	ug/Kg	135		
DINOSEB	<	14.5	ug/Kg	14.5		
MCPA	<	51600	ug/Kg	51600		
MCPP	<	39800	ug/Kg	39800		
SURROGATE DCAA		45.5	% Recovery			

SAMPLE ID- 0156HA04(002.0)
SAMPLE NUMBER- 681
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1025
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE		2.70	%	0.01	03/29/94	
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	247	ug/Kg	247		
2,4-DB	<	187	ug/Kg	187		
2,4,5-T	<	41.1	ug/Kg	41.1		
2,4,5-TP (Silvex)	<	34.9	ug/Kg	34.9		
DALAPON	<	1190	ug/Kg	1190		
DICAMBA	<	55.5	ug/Kg	55.5		
DICHLOROPROP	<	134	ug/Kg	134		
DINOSEB	<	14.4	ug/Kg	14.4		
MCPA	<	51200	ug/Kg	51200		
MCPP	<	39500	ug/Kg	39500		
SURROGATE DCAA		12.5	% Recovery			

SAMPLE ID- 0156HA03(000.0)
SAMPLE NUMBER- 682
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1026
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE		6.20	%	0.01	03/29/94	
CHLORINATED HERBICIDES					03/04/94	8150

CONTINUATION OF DATA FOR SAMPLE NUMBER 682

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2,4-D	<	256	ug/Kg	256		
2,4-DB	<	194	ug/Kg	194		
2,4,5-T	<	42.6	ug/Kg	42.6		
2,4,5-TP (Silvex)	<	36.2	ug/Kg	36.2		
DALAPON	<	1240	ug/Kg	1240		
DICAMBA	<	57.6	ug/Kg	57.6		
DICHLOROPROP	<	139	ug/Kg	139		
DINOSEB	<	14.9	ug/Kg	14.9		
MCPA	<	53100	ug/Kg	53100		
MCPP	<	41000	ug/Kg	41000		
SURROGATE DCAA		5.15	% Recovery			

SAMPLE ID- 0156HA04(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 683
TIME SAMPLED- 1021
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS		RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE		5.60	%	0.01	03/29/94	
CHLORINATED HERBICIDES					03/04/94	8150
2,4-D	<	254	ug/Kg	254		
2,4-DB	<	193	ug/Kg	193		
2,4,5-T	<	42.4	ug/Kg	42.4		
2,4,5-TP (Silvex)	<	36	ug/Kg	36		
DALAPON	<	1230	ug/Kg	1230		
DICAMBA	<	57.2	ug/Kg	57.2		
DICHLOROPROP	<	138	ug/Kg	138		
DINOSEB	<	14.8	ug/Kg	14.8		
MCPA	<	52800	ug/Kg	52800		
MCPP	<	40700	ug/Kg	40700		
SURROGATE DCAA		11.0	% Recovery			

SAMPLE ID- 0156HA07(000.0)
SAMPLE NUMBER- 684
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1051
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	6.30	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/04/94	8150
2,4-D	<256.	ug/Kg	256.		
2,4-DB	<194.	ug/Kg	194.		
2,4,5-T	<42.7	ug/Kg	42.7		
2,4,5-TP (Silvex)	<36.3	ug/Kg	36.3		
DALAPON	<1240	ug/Kg	1240		
DICAMBA	<57.6	ug/Kg	57.6		
DICHLOROPROP	<139	ug/Kg	139		
DINOSEB	<14.9	ug/Kg	14.9		
MCPA	<53100	ug/Kg	53100		
MCPP	<41000	ug/Kg	41000		
SURROGATE DCAA	22.0	% Recovery			

SAMPLE ID- 0156HA07(002.0)
SAMPLE NUMBER- 685
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1053
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.80	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/04/94	8150
2,4-D	<249.	ug/Kg	249.		
2,4-DB	<189.	ug/Kg	189.		
2,4,5-T	<41.6	ug/Kg	41.6		
2,4,5-TP (Silvex)	<35.3	ug/Kg	35.3		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<56.1	ug/Kg	56.1		
DICHLOROPROP	<135.	ug/Kg	135.		
DINOSEB	<14.6	ug/Kg	14.6		
MCPA	<51800	ug/Kg	51800		
MCPP	<39900	ug/Kg	39900		
SURROGATE DCAA	86.5	% Recovery			

SAMPLE ID- 0156HA07(004.0)
SAMPLE NUMBER- 686
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1123
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.00	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/04/94	8150
2,4-D	<247.	ug/Kg	247.		
2,4-DB	<188	ug/Kg	188		
2,4,5-T	<41.2	ug/Kg	41.2		
2,4,5-TP (Silvex)	<35.0	ug/Kg	35.0		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.7	ug/Kg	55.7		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.4	ug/Kg	14.4		
MCPA	<51300	ug/Kg	51300		
MCPP	<39600	ug/Kg	39600		
SURROGATE DCAA	0.0	% Recovery			

SAMPLE ID- 0156HA11(000.0)
SAMPLE NUMBER- 687
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 0749
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	1.60	%	0.01	03/29/94	

SAMPLE ID- 0156HA08(003.0)
SAMPLE NUMBER- 689
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1222
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.20	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/04/94	8150
2,4-D	<248	ug/Kg	248		
2,4-DB	<188.	ug/Kg	188.		
2,4,5-T	<41.3	ug/Kg	41.3		

CONTINUATION OF DATA FOR SAMPLE NUMBER 689

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2,4,5-TP (Silvex)	<35.1	ug/Kg	35.1		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.8	ug/Kg	55.8		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51400	ug/Kg	51400		
MCPP	<39700	ug/Kg	39700		
SURROGATE DCAA	74.5	% Recovery			

SAMPLE ID- 0156HA09(000.0)
SAMPLE NUMBER- 690
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1150
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.20	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/04/94	8150
2,4-D	<248	ug/Kg	248		
2,4-DB	<188.	ug/Kg	188.		
2,4,5-T	<41.3	ug/Kg	41.3		
2,4,5-TP (Silvex)	<35.1	ug/Kg	35.1		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.8	ug/Kg	55.8		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51400	ug/Kg	51400		
MCPP	<39700	ug/Kg	39700		
SURROGATE DCAA	13.6	% Recovery			

SAMPLE ID- 0156HA09(002.0)
SAMPLE NUMBER- 691
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	4.70	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150

CONTINUATION OF DATA FOR SAMPLE NUMBER 691

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
2,4-D	<252	ug/Kg	252		
2,4-DB	<191	ug/Kg	191		
2,4,5-T	<42.0	ug/Kg	42.0		
2,4,5-TP (Silvex)	<35.7	ug/Kg	35.7		
DALAPON	<1220	ug/Kg	1220		
DICAMBA	<56.7	ug/Kg	56.7		
DICHLOROPROP	<136.	ug/Kg	136.		
DINOSEB	<14.7	ug/Kg	14.7		
MCPA	<52200	ug/Kg	52200		
MCPP	<40300	ug/Kg	40300		
SURROGATE DCAA	3.55	% Recovery			

SAMPLE ID- 0156HA09(002.0)QC
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 692
TIME SAMPLED- 1155
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	4.40	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<251.	ug/Kg	251.		
2,4-DB	<190.	ug/Kg	190.		
2,4,5-T	<41.8	ug/Kg	41.8		
2,4,5-TP (Silvex)	<35.6	ug/Kg	35.6		
DALAPON	<1210	ug/Kg	1210		
DICAMBA	<56.5	ug/Kg	56.5		
DICHLOROPROP	<136	ug/Kg	136		
DINOSEB	<14.6	ug/Kg	14.6		
MCPA	<52100	ug/Kg	52100		
MCPP	<40200	ug/Kg	40200		
SURROGATE DCAA	18.8	% Recovery			

SAMPLE ID- 0156HA09(004.0)

SAMPLE NUMBER- 693
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1204
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	2.90	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<247.	ug/Kg	247.		
2,4-DB	<187.	ug/Kg	187.		
2,4,5-T	<41.2	ug/Kg	41.2		
2,4,5-TP (Silvex)	<35.0	ug/Kg	35.0		
DALAPON	<1190	ug/Kg	1190		
DICAMBA	<55.6	ug/Kg	55.6		
DICHLOROPROP	<134	ug/Kg	134		
DINOSEB	<14.4	ug/Kg	14.4		
MCPA	<51300	ug/Kg	51300		
MCPP	<39500	ug/Kg	39500		
SURROGATE DCAA	8.00	% Recovery			

SAMPLE ID- 0156HA10(000.0)

SAMPLE NUMBER- 694
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.80	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<249.	ug/Kg	249.		
2,4-DB	<189.	ug/Kg	189.		
2,4,5-T	<41.6	ug/Kg	41.6		
2,4,5-TP (Silvex)	<35.3	ug/Kg	35.3		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<56.1	ug/Kg	56.1		
DICHLOROPROP	<135.	ug/Kg	135.		
DINOSEB	<14.6	ug/Kg	14.6		
MCPA	<51800	ug/Kg	51800		
MCPP	<39900	ug/Kg	39900		
SURROGATE DCAA	1.30	% Recovery			

SAMPLE ID- 0156HA10(000.0)QC

SAMPLE NUMBER- 695
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.50	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<249	ug/Kg	249		
2,4-DB	<189	ug/Kg	189		
2,4,5-T	<41.4	ug/Kg	41.4		
2,4,5-TP (Silvex)	<35.2	ug/Kg	35.2		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<56.0	ug/Kg	56.0		
DICHLOROPROP	<135	ug/Kg	135		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51600	ug/Kg	51600		
MCPP	<39800	ug/Kg	39800		
SURROGATE DCAA	3.45	% Recovery			

SAMPLE ID- 0156HA10(002.0)

SAMPLE NUMBER- 696
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1156
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	4.70	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<252	ug/Kg	252		
2,4-DB	<191	ug/Kg	191		
2,4,5-T	<42.0	ug/Kg	42.0		
2,4,5-TP (Silvex)	<35.7	ug/Kg	35.7		
DALAPON	<1220	ug/Kg	1220		
DICAMBA	<56.7	ug/Kg	56.7		
DICHLOROPROP	<136.	ug/Kg	136.		
DINOSEB	<14.7	ug/Kg	14.7		
MCPA	<52200	ug/Kg	52200		
MCPP	<40300	ug/Kg	40300		
SURROGATE DCAA	2.60	% Recovery			

SAMPLE ID- 0156HA10(004.0)
SAMPLE NUMBER- 697
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1206
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	4.70	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<252	ug/Kg	252		
2,4-DB	<191	ug/Kg	191		
2,4,5-T	<42.0	ug/Kg	42.0		
2,4,5-TP (Silvex)	<35.7	ug/Kg	35.7		
DALAPON	<1220	ug/Kg	1220		
DICAMBA	<56.7	ug/Kg	56.7		
DICHLOROPROP	<136.	ug/Kg	136.		
DINOSEB	<14.7	ug/Kg	14.7		
MCPA	<52200	ug/Kg	52200		
MCPP	<40300	ug/Kg	40300		
SURROGATE DCAA	0.95	% Recovery			

SAMPLE ID- 0156HA01(000.0)
SAMPLE NUMBER- 698
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1000
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	5.80	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<255	ug/Kg	255		
2,4-DB	<193.	ug/Kg	193.		
2,4,5-T	<42.5	ug/Kg	42.5		
2,4,5-TP (Silvex)	<36.1	ug/Kg	36.1		
DALAPON	<1230	ug/Kg	1230		
DICAMBA	<57.3	ug/Kg	57.3		
DICHLOROPROP	<138.	ug/Kg	138.		
DINOSEB	<14.9	ug/Kg	14.9		
MCPA	<52900	ug/Kg	52900		
MCPP	<40800	ug/Kg	40800		
SURROGATE DCAA	3.75	% Recovery			

SAMPLE ID- 0156HA01(002.0)
SAMPLE NUMBER- 699
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1011
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.50	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<249	ug/Kg	249		
2,4-DB	<189	ug/Kg	189		
2,4,5-T	<41.4	ug/Kg	41.4		
2,4,5-TP (Silvex)	<35.2	ug/Kg	35.2		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<56.0	ug/Kg	56.0		
DICHLOROPROP	<135	ug/Kg	135		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51600	ug/Kg	51600		
MCPP	<39800	ug/Kg	39800		
SURROGATE DCAA	0.90	% Recovery			

SAMPLE ID- 0156HA05(000.0)
SAMPLE NUMBER- 700
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1347
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.80	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<249.	ug/Kg	249.		
2,4-DB	<189.	ug/Kg	189.		
2,4,5-T	<41.6	ug/Kg	41.6		
2,4,5-TP (Silvex)	<35.3	ug/Kg	35.3		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<56.1	ug/Kg	56.1		
DICHLOROPROP	<135.	ug/Kg	135.		
DINOSEB	<14.6	ug/Kg	14.6		
MCPA	<51800	ug/Kg	51800		
MCPP	<39900	ug/Kg	39900		
SURROGATE DCAA	0.03	% Recovery			

SAMPLE ID- 0156HA05(002.0)
SAMPLE NUMBER- 701
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.90	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<250	ug/Kg	250		
2,4-DB	<189.	ug/Kg	189.		
2,4,5-T	<41.6	ug/Kg	41.6		
2,4,5-TP (Silvex)	<35.4	ug/Kg	35.4		
DALAPON	<1210	ug/Kg	1210		
DICAMBA	<56.2	ug/Kg	56.2		
DICHLOROPROP	<135.	ug/Kg	135.		
DINOSEB	<14.6	ug/Kg	14.6		
MCPA	<51800	ug/Kg	51800		
MCPP	<40000	ug/Kg	40000		
SURROGATE DCAA	0.45	% Recovery			

SAMPLE ID- 0156HA05(002.0)QC
SAMPLE NUMBER- 702
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1359
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.70	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<249.	ug/Kg	249.		
2,4-DB	<189	ug/Kg	189		
2,4,5-T	<41.5	ug/Kg	41.5		
2,4,5-TP (Silvex)	<35.3	ug/Kg	35.3		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<56.1	ug/Kg	56.1		
DICHLOROPROP	<135	ug/Kg	135		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51700	ug/Kg	51700		
MCPP	<39900	ug/Kg	39900		
SURROGATE DCAA	0.20	% Recovery			

SAMPLE ID- 0156HA05(003.0)
SAMPLE NUMBER- 703
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1410
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.10	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<248	ug/Kg	248		
2,4-DB	<188	ug/Kg	188		
2,4,5-T	<41.3	ug/Kg	41.3		
2,4,5-TP (Silvex)	<35.1	ug/Kg	35.1		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.7	ug/Kg	55.7		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.4	ug/Kg	14.4		
MCPA	<51400	ug/Kg	51400		
MCPP	<39600	ug/Kg	39600		
SURROGATE DCAA	0.70	% Recovery			

SAMPLE ID- 0156HA06(000.0)
SAMPLE NUMBER- 704
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.30	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<248.	ug/Kg	248.		
2,4-DB	<188.	ug/Kg	188.		
2,4,5-T	<41.4	ug/Kg	41.4		
2,4,5-TP (Silvex)	<35.2	ug/Kg	35.2		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.8	ug/Kg	55.8		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51500	ug/Kg	51500		
MCPP	<39700	ug/Kg	39700		
SURROGATE DCAA	2.30	% Recovery			

SAMPLE ID- 0156HA06(000.0)MS
SAMPLE NUMBER- 705
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.40	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<248.	ug/Kg	248.		
2,4-DB	<188.	ug/Kg	188.		
2,4,5-T	<41.4	ug/Kg	41.4		
2,4,5-TP (Silvex)	<35.2	ug/Kg	35.2		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.9	ug/Kg	55.9		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51600	ug/Kg	51600		
MCPP	<39800	ug/Kg	39800		
SURROGATE DCAA	1.90	% Recovery			

SAMPLE ID- 0156HA06(000.0)MSD
SAMPLE NUMBER- 706
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.30	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<248.	ug/Kg	248.		
2,4-DB	<188.	ug/Kg	188.		
2,4,5-T	<41.4	ug/Kg	41.4		
2,4,5-TP (Silvex)	<35.2	ug/Kg	35.2		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.8	ug/Kg	55.8		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51500	ug/Kg	51500		
MCPP	<39700	ug/Kg	39700		
SURROGATE DCAA	4.30	% Recovery			

SAMPLE ID- 0156HA06(002.0)
SAMPLE NUMBER- 707
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1357
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	4.00	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<250.	ug/Kg	250.		
2,4-DB	<190	ug/Kg	190		
2,4,5-T	<41.7	ug/Kg	41.7		
2,4,5-TP (Silvex)	<35.4	ug/Kg	35.4		
DALAPON	<1210	ug/Kg	1210		
DICAMBA	<56.2	ug/Kg	56.2		
DICHLOROPROP	<135.	ug/Kg	135.		
DINOSEB	<14.6	ug/Kg	14.6		
MCPA	<51900	ug/Kg	51900		
MCPP	<40000	ug/Kg	40000		
SURROGATE DCAA	9.95	% Recovery			

SAMPLE ID- 0156HA06(004.0)
SAMPLE NUMBER- 708
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1402
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.30	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<248.	ug/Kg	248.		
2,4-DB	<188.	ug/Kg	188.		
2,4,5-T	<41.4	ug/Kg	41.4		
2,4,5-TP (Silvex)	<35.2	ug/Kg	35.2		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.8	ug/Kg	55.8		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51500	ug/Kg	51500		
MCPP	<39700	ug/Kg	39700		
SURROGATE DCAA	14.7	% Recovery			

SAMPLE ID- 0156HA08(000.0)
SAMPLE NUMBER- 709
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1050
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.30	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<248.	ug/Kg	248.		
2,4-DB	<188.	ug/Kg	188.		
2,4,5-T	<41.4	ug/Kg	41.4		
2,4,5-TP (Silvex)	<35.2	ug/Kg	35.2		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<55.8	ug/Kg	55.8		
DICHLOROPROP	<134.	ug/Kg	134.		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51500	ug/Kg	51500		
MCPP	<39700	ug/Kg	39700		
SURROGATE DCAA	12.2	% Recovery			

SAMPLE ID- 0156HA08(002.0)
SAMPLE NUMBER- 710
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1055
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
% MOISTURE	3.60	%	0.01	03/29/94	
CHLORINATED HERBICIDES				03/05/94	8150
2,4-D	<249	ug/Kg	249		
2,4-DB	<189	ug/Kg	189		
2,4,5-T	<41.5	ug/Kg	41.5		
2,4,5-TP (Silvex)	<35.3	ug/Kg	35.3		
DALAPON	<1200	ug/Kg	1200		
DICAMBA	<56.0	ug/Kg	56.0		
DICHLOROPROP	<135	ug/Kg	135		
DINOSEB	<14.5	ug/Kg	14.5		
MCPA	<51600	ug/Kg	51600		
MCPP	<39800	ug/Kg	39800		
SURROGATE DCAA	14.1	% Recovery			

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR _____
James H. Carr

CASE NARRATIVE
for
ANALYTICAL LABORATORY SERVICES

PROJECT NAME: WHITE SANDS MISSILE RANGE
PROJECT NUMBER: 85-6

Prepared for:

Sverdrup Environmental, Inc.
13723 Riverport Drive
Maryland Heights, MO 63043

Prepared by:

JAMES H. CARR AND ASSOCIATES, INC.
919 TRUE STREET
COLUMBIA, SOUTH CAROLINA 29209
(800) 435-3995
(803) 776-7789

April 9, 1994

All samples were stored in a refrigerator at 4 degrees C. Each sample was extracted (if required) and analyzed according to procedures outlined in SW846 and Carr's QA/QC Procedure Manual.

The final analytical reports are grouped according to analysis as requested by Sverdrup. Following each analytical report is the accompanying QC Report for that analysis. Any particular difficulties encountered during the sample handling by Carr Labs will be discussed in the following paragraphs addressed by each laboratory section.

GC Section

Sample number 785 was analyzed beyond the 40 day analysis holding time for PPCB's (8080).

All other quality control variables (calibration curves, blanks, etc.) were acceptable for all analysis dates.

GC/MS Section

VOC Analyses

The following list of sample numbers showed surrogate recoveries that were not within the quality control limits for VOC analysis: 721, 766, 767, 803 and 815. All these samples were reanalyzed, but the reanalysis date was beyond the 14 day analysis holding time. The second analysis showed better surrogate recoveries for all the samples with comparable results. The "Report of Analyses" contains the initial analysis data since the reanalysis was beyond the holding time.

Sample no. 729 (VOC trip blank) shows a toluene "hit" that may not be from the sample. While this sample was being analyzed, a serviceman opened a bottle of toluene in the organic lab which could have contaminated that sample along with sample nos. 721 - 725, and 729. Sample no. 793 showed 2 compounds that are confirmed "hits".

Response Factors: All response factors and % differences for the continuing calibrations were within the method acceptance ranges for all analysis dates.

All other quality control variables (calibration curves, blanks, etc.) were acceptable for all analysis dates.

CARR LABS **April 9, 1994**
CASE NARRATIVE **WSMR 85-6**

Semivolatiles

The method blank for the 1/24/94 extraction date had surrogate recoveries that were below the method quality control limits. The following samples were extracted with that method blank: 718, 720-725, 731, 732, and 734.

The 01/28/94 extraction blank was not for fortified with acid surrogates. The following sample nos. were extracted with that blank: 760, 762-766, 768, 769, 771, 772 and 774.

The method blank for the 2/01/94 extraction date had surrogate recoveries that were below the method quality control limits. The following samples were extracted with that method blank: 812-814.

Sample bottles 750 and 790 were broken inhouse and not analyzed. Fortunately, these were QC samples (field duplicates) that belong with sample nos. 749 and 791.

The following list of sample numbers showed surrogate recoveries that were not within the quality control limits for semivolatile analysis: 731, 732, 736-738, 759, 762, 764, 769, 772, 796, 801, 802.

Inadvertently, sample nos. 732, 813MS, and ~~813~~ 814MSD were not spiked. Sample no. BS 012494 and 9969 was run as the spike and spike duplicate with that batch of samples.

Response Factors: All response factors and % differences for the continuing calibrations were within the method acceptance ranges for all analysis dates.

All other quality control variables (calibration curves, blanks, etc.) were acceptable for all analysis dates.

METALS

<u>Hexavalent Chromium</u>: For MS/MSD set 726-728, only 728 was spiked. Unspiked sample no. 727 was inadvertently read in duplicate rather than being spiked.

Samples 797-799 (MS/MSD) were found to have inconsistent concentrations of Cr+6, with 798-799 both reading 0.03 mg/L unspiked, while 797 read 0.01 mg/L. Sample 798 was analyzed as a spike and a spiked duplicate (0.14, 0.16 mg/L). Sample 799 was inadvertently not spiked.

ICP Metals: Chromium and silver detection limits are reported as <0.025 mg/L rather than 0.01 mg/L. Samples would have to be preconcentrated by a factor of 4 or 5X to attain the 0.01 mg/L detection limit, but this degree of preconcentration is impractical due to the high % solids in most of these samples causing interference problems and clogging of the instrument with salt deposits.

Concentration of chromium in sample no. 796 (total) is too high to calculate meaningful spike data.

ICP samples analyzed 3/10/94 and 3/11/94 are to be reanalyzed in order to generate more adequate quality control coverage.

GFAA Metals: The selenium analysis for sample no. 723, and the selenium (dissolved) for 812/813/814 showed major interference in the original analytical runs. These samples were rerun on 4/12/94 using a varied matrix modifier scheme to give better control over the matrix. Sample results were similar to what was reported, with improved but erratic spike recoveries.

Interference was also evident with the analytical spike on sample no. 833 for selenium, which had acceptable recovery but high %RSD on the spike duplicate.

Sample no. 792 originally run on 3/22/94 for dissolved Pb with 135% recovery; this sample was rerun on 3/28/94 with sample result the same, and with acceptable spike recovery.

TRPH Analysis

No problems encountered during analyses.

Fluoride, and TDS Analyses

No problems encountered during analyses.

Cyanide Analysis

Low spike recoveries were seen in 788MS and 789MSD samples. Sample was analyzed twice with comparable results. The spiked recovery of a non White Sands sample showed an acceptable recovery of 101%.

Should Sverdrup Environmental have any questions or comments pertaining to this data package please don't hesitate to contact us.

JAMES H. CARR AND ASSOCIATES, INC.
CASE NARRATIVE

SVERDRUP ENVIRONMENTAL, INC.
PROJECT WSMR 85-6

For Carr Labs:

Laboratory Director	Quality Assurance	Report Preparation
Signed:		
James Carr President	Carol Stork QA/QC Officier	Grady Satcher Project Manager

CONTINUATION OF DATA FOR SAMPLE NUMBER 679

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337.	ug/Kg	337.		
1,3-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,4-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,2-DICHLOROBENZENE	<337.	ug/Kg	337.		
BIS(2-CHLOROISOPROPYL)ETHER	<337.	ug/Kg	337.		
N-NITROSO-DI-N-PROPYLAMINE	<337.	ug/Kg	337.		
HEXACHLOROETHANE	<337.	ug/Kg	337.		
NITROBENZENE	<337.	ug/Kg	337.		
ISOPHORONE	<337.	ug/Kg	337.		
BIS(2-CHLOROETHOXY)METHANE	<337.	ug/Kg	337.		
1,2,4-TRICHLOROBENZENE	<337.	ug/Kg	337.		
NAPHTHALENE	<337.	ug/Kg	337.		
HEXACHLOROBUTADIENE	<337.	ug/Kg	337.		
HEXACHLOROCYCLOPENTADIENE	<337.	ug/Kg	337.		
2-CHLORONAPHTHALENE	<337.	ug/Kg	337.		
DIMETHYLPHTHALATE	<337.	ug/Kg	337.		
ACENAPHTHYLENE	<337.	ug/Kg	337.		
ACENAPHTHENE	<337.	ug/Kg	337.		
2,4-DINITROTOLUENE	<337.	ug/Kg	337.		
2,6-DINITROTOLUENE	<337.	ug/Kg	337.		
DIETHYLPHTHALATE	<337.	ug/Kg	337.		
4-CHLOROPHENYL-PHENYLETHER	<337.	ug/Kg	337.		
FLUORENE	<337.	ug/Kg	337.		
N-NITROSODIPHENYLAMINE (1)	<337.	ug/Kg	337.		
4-BROMOPHENYL PHENYL ETHER	<337.	ug/Kg	337.		
HEXACHLOROBENZENE	<337.	ug/Kg	337.		
PHENANTHRENE	<337.	ug/Kg	337.		
ANTHRACENE	<337.	ug/Kg	337.		
DI-N-BUTYLPHTHALATE	<337.	ug/Kg	337.		
FLUORANTHENE	<337.	ug/Kg	337.		
PYRENE	<337.	ug/Kg	337.		
BUTYLBENZYLPHTHALATE	<337.	ug/Kg	337.		
3,3'-DICHLOROBENZIDINE	<337.	ug/Kg	337.		
BENZO(A)ANTHRACENE	<337.	ug/Kg	337.		
BIS(2-ETHYLHEXYL)PHTHALATE	<337.	ug/Kg	337.		
CHRYSENE	<337.	ug/Kg	337.		
DI-N-OCTYLPHTHALATE	<337.	ug/Kg	337.		
BENZO(B)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(K)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(A)PYRENE	<337.	ug/Kg	337.		
INDENO(1,2,3-CD)PYRENE	<337.	ug/Kg	337.		
DIBENZ(A,H)ANTHRACENE	<337.	ug/Kg	337.		
BENZO(G,H,I)PERYLENE	<337.	ug/Kg	337.		
SURROGATE NITROBENZENE-D5	53.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 679

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	56.0	% Recovery			
SURROGATE TERPHENYL-D14	68.0	% Recovery			
1-CHLOROANAPHTHALENE	<337.	ug/Kg	337.	02/11/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/11/94	
BENZIDINE	<1640	ug/Kg	1640	02/11/94	

SAMPLE ID- 0156HA03(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 680
TIME SAMPLED- 1028
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<356	ug/Kg	356		
2-CHLOROPHENOL	<356	ug/Kg	356		
2-NITROPHENOL	<356	ug/Kg	356		
2,4-DIMETHYLPHENOL	<356	ug/Kg	356		
2,4-DICHLOROPHENOL	<356	ug/Kg	356		
4-CHLORO-3-METHYLPHENOL	<356	ug/Kg	356		
2,4,6-TRICHLOROPHENOL	<356	ug/Kg	356		
2,4-DINITROPHENOL	<1720	ug/Kg	1720		
4-NITROPHENOL	<1720	ug/Kg	1720		
4,6-DINITRO-2-METHYLPHENOL	<1720	ug/Kg	1720		
PENTACHLOROPHENOL	<1720	ug/Kg	1720		
2,4,5-TRICHLOROPHENOL	<356	ug/Kg	356		
4-METHYLPHENOL	<356	ug/Kg	356		
2-METHYLPHENOL	<356	ug/Kg	356		
BENZYL ALCOHOL	<356	ug/Kg	356		
BENZOIC ACID	<1720	ug/Kg	1720		
2-METHYLNAPHTHALENE	<356	ug/Kg	356		
2-NITROANILINE	<1720	ug/Kg	1720		
3-NITROANILINE	<1720	ug/Kg	1720		
4-NITROANILINE	<1720	ug/Kg	1720		
4-CHLOROANILINE	<356	ug/Kg	356		
DIBENZOFURAN	<356	ug/Kg	356		
SURROGATE PHENOL-D5	63.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	62.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	59.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<356	ug/Kg	356		
1,3-DICHLOROBENZENE	<356	ug/Kg	356		
1,4-DICHLOROBENZENE	<356	ug/Kg	356		
1,2-DICHLOROBENZENE	<356	ug/Kg	356		
BIS(2-CHLOROISOPROPYL)ETHER	<356	ug/Kg	356		
N-NITROSO-DI-N-PROPYLAMINE	<356	ug/Kg	356		
HEXACHLOROETHANE	<356	ug/Kg	356		
NITROBENZENE	<356	ug/Kg	356		
ISOPHORONE	<356	ug/Kg	356		
BIS(2-CHLOROETHOXY)METHANE	<356	ug/Kg	356		
1,2,4-TRICHLOROBENZENE	<356	ug/Kg	356		
NAPHTHALENE	<356	ug/Kg	356		
HEXACHLOROBUTADIENE	<356	ug/Kg	356		
HEXACHLOROCYCLOPENTADIENE	<356	ug/Kg	356		
2-CHLORONAPHTHALENE	<356	ug/Kg	356		
DIMETHYLPHTHALATE	<356	ug/Kg	356		
ACENAPHTHYLENE	<356	ug/Kg	356		
ACENAPHTHENE	<356	ug/Kg	356		
2,4-DINITROTOLUENE	<356	ug/Kg	356		
2,6-DINITROTOLUENE	<356	ug/Kg	356		
DIETHYLPHTHALATE	<356	ug/Kg	356		
4-CHLOROPHENYL-PHENYLETHER	<356	ug/Kg	356		
FLUORENE	<356	ug/Kg	356		
N-NITROSODIPHENYLAMINE (1)	<356	ug/Kg	356		
4-BROMOPHENYL PHENYL ETHER	<356	ug/Kg	356		
HEXACHLOROBENZENE	<356	ug/Kg	356		
PHENANTHRENE	<356	ug/Kg	356		
ANTHRACENE	<356	ug/Kg	356		
DI-N-BUTYLPHTHALATE	<356	ug/Kg	356		
FLUORANTHENE	<356	ug/Kg	356		
PYRENE	<356	ug/Kg	356		
BUTYLBENZYLPHTHALATE	<356	ug/Kg	356		
3,3'-DICHLOROBENZIDINE	<356	ug/Kg	356		
BENZO(A)ANTHRACENE	<356	ug/Kg	356		
BIS(2-ETHYLHEXYL)PHTHALATE	<356	ug/Kg	356		
CHRYSENE	<356	ug/Kg	356		
DI-N-OCTYLPHTHALATE	<356	ug/Kg	356		
BENZO(B)FLUORANTHENE	<356	ug/Kg	356		
BENZO(K)FLUORANTHENE	<356	ug/Kg	356		
BENZO(A)PYRENE	<356	ug/Kg	356		
INDENO(1,2,3-CD)PYRENE	<356	ug/Kg	356		
DIBENZ(A,H)ANTHRACENE	<356	ug/Kg	356		
BENZO(G,H,I)PERYLENE	<356	ug/Kg	356		
SURROGATE NITROBENZENE-D5	49.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 680

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	55.0	% Recovery			
SURROGATE TERPHENYL-D14	58.0	% Recovery			
1-CHLOROANAPHTHALENE	<356	ug/Kg	356	02/11/94	
DIPHENYLAMINE	<1080	ug/Kg	1080	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1720	ug/Kg	1720	02/11/94	
BENZIDINE	<1720	ug/Kg	1720	02/11/94	

SAMPLE ID- 0156HA04(002.0)

SAMPLE NUMBER- 681
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1025
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<335	ug/Kg	335		
2-CHLOROPHENOL	<335	ug/Kg	335		
2-NITROPHENOL	<335	ug/Kg	335		
2,4-DIMETHYLPHENOL	<335	ug/Kg	335		
2,4-DICHLOROPHENOL	<335	ug/Kg	335		
4-CHLORO-3-METHYLPHENOL	<335	ug/Kg	335		
2,4,6-TRICHLOROPHENOL	<335	ug/Kg	335		
2,4-DINITROPHENOL	<1620	ug/Kg	1620		
4-NITROPHENOL	<1620	ug/Kg	1620		
4,6-DINITRO-2-METHYLPHENOL	<1620	ug/Kg	1620		
PENTACHLOROPHENOL	<1620	ug/Kg	1620		
2,4,5-TRICHLOROPHENOL	<335	ug/Kg	335		
4-METHYLPHENOL	<335	ug/Kg	335		
2-METHYLPHENOL	<335	ug/Kg	335		
BENZYL ALCOHOL	<335	ug/Kg	335		
BENZOIC ACID	<1620	ug/Kg	1620		
2-METHYLNAPHTHALENE	<335	ug/Kg	335		
2-NITROANILINE	<1620	ug/Kg	1620		
3-NITROANILINE	<1620	ug/Kg	1620		
4-NITROANILINE	<1620	ug/Kg	1620		
4-CHLOROANILINE	<335	ug/Kg	335		
DIBENZOFURAN	<335	ug/Kg	335		
SURROGATE PHENOL-D5	70.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	70.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	73.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 681

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<335	ug/Kg	335		
1,3-DICHLOROBENZENE	<335	ug/Kg	335		
1,4-DICHLOROBENZENE	<335	ug/Kg	335		
1,2-DICHLOROBENZENE	<335	ug/Kg	335		
BIS(2-CHLOROISOPROPYL)ETHER	<335	ug/Kg	335		
N-NITROSO-DI-N-PROPYLAMINE	<335	ug/Kg	335		
HEXACHLOROETHANE	<335	ug/Kg	335		
NITROBENZENE	<335	ug/Kg	335		
ISOPHORONE	<335	ug/Kg	335		
BIS(2-CHLOROETHOXY)METHANE	<335	ug/Kg	335		
1,2,4-TRICHLOROBENZENE	<335	ug/Kg	335		
NAPHTHALENE	<335	ug/Kg	335		
HEXACHLOROBUTADIENE	<335	ug/Kg	335		
HEXACHLOROCYCLOPENTADIENE	<335	ug/Kg	335		
2-CHLORONAPHTHALENE	<335	ug/Kg	335		
DIMETHYLPHTHALATE	<335	ug/Kg	335		
ACENAPHTHYLENE	<335	ug/Kg	335		
ACENAPHTHENE	<335	ug/Kg	335		
2,4-DINITROTOLUENE	<335	ug/Kg	335		
2,6-DINITROTOLUENE	<335	ug/Kg	335		
DIETHYLPHTHALATE	<335	ug/Kg	335		
4-CHLOROPHENYL-PHENYLETHER	<335	ug/Kg	335		
FLUORENE	<335	ug/Kg	335		
N-NITROSODIPHENYLAMINE (1)	<335	ug/Kg	335		
4-BROMOPHENYL PHENYL ETHER	<335	ug/Kg	335		
HEXACHLOROBENZENE	<335	ug/Kg	335		
PHENANTHRENE	<335	ug/Kg	335		
ANTHRACENE	<335	ug/Kg	335		
DI-N-BUTYLPHTHALATE	<335	ug/Kg	335		
FLUORANTHENE	<335	ug/Kg	335		
PYRENE	<335	ug/Kg	335		
BUTYLBENZYLPHTHALATE	<335	ug/Kg	335		
3,3'-DICHLOROBENZIDINE	<335	ug/Kg	335		
BENZO(A)ANTHRACENE	<335	ug/Kg	335		
BIS(2-ETHYLHEXYL)PHTHALATE	<335	ug/Kg	335		
CHRYSENE	<335	ug/Kg	335		
DI-N-OCTYLPHTHALATE	<335	ug/Kg	335		
BENZO(B)FLUORANTHENE	<335	ug/Kg	335		
BENZO(K)FLUORANTHENE	<335	ug/Kg	335		
BENZO(A)PYRENE	<335	ug/Kg	335		
INDENO(1,2,3-CD)PYRENE	<335	ug/Kg	335		
DIBENZ(A,H)ANTHRACENE	<335	ug/Kg	335		
BENZO(G,H,I)PERYLENE	<335	ug/Kg	335		
SURROGATE NITROBENZENE-D5	54.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 681

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	61.0	% Recovery			
SURROGATE TERPHENYL-D14	61.0	% Recovery			
1-CHLOROANAPHTHALENE	<335	ug/Kg	335	02/11/94	
DIPHENYLAMINE	<1010	ug/Kg	1010	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1620	ug/Kg	1620	02/11/94	
BENZIDINE	<1620	ug/Kg	1620	02/11/94	

SAMPLE ID- 0156HA03(000.0)

TIME RECEIVED- 0915

DATE SAMPLED- 01/10/94

DELIVERED BY- FED. EXP.

SAMPLE NUMBER- 682

TIME SAMPLED- 1026

RECEIVED BY- DH

SAMPLE MATRIX- SOIL

DATE RECEIVED- 01/12/94

SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<348.	ug/Kg	348.		
2-CHLOROPHENOL	<348.	ug/Kg	348.		
2-NITROPHENOL	<348.	ug/Kg	348.		
2,4-DIMETHYLPHENOL	<348.	ug/Kg	348.		
2,4-DICHLOROPHENOL	<348.	ug/Kg	348.		
4-CHLORO-3-METHYLPHENOL	<348.	ug/Kg	348.		
2,4,6-TRICHLOROPHENOL	<348.	ug/Kg	348.		
2,4-DINITROPHENOL	<1690	ug/Kg	1690		
4-NITROPHENOL	<1690	ug/Kg	1690		
4,6-DINITRO-2-METHYLPHENOL	<1690	ug/Kg	1690		
PENTACHLOROPHENOL	<1690	ug/Kg	1690		
2,4,5-TRICHLOROPHENOL	<348.	ug/Kg	348.		
4-METHYLPHENOL	<348.	ug/Kg	348.		
2-METHYLPHENOL	<348.	ug/Kg	348.		
BENZYL ALCOHOL	<348.	ug/Kg	348.		
BENZOIC ACID	<1690	ug/Kg	1690		
2-METHYLNAPHTHALENE	<348.	ug/Kg	348.		
2-NITROANILINE	<1690	ug/Kg	1690		
3-NITROANILINE	<1690	ug/Kg	1690		
4-NITROANILINE	<1690	ug/Kg	1690		
4-CHLOROANILINE	<348.	ug/Kg	348.		
DIBENZOFURAN	<348.	ug/Kg	348.		
SURROGATE PHENOL-D5	50.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	49.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	48.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 682

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<348.	ug/Kg	348.		
1,3-DICHLOROBENZENE	<348.	ug/Kg	348.		
1,4-DICHLOROBENZENE	<348.	ug/Kg	348.		
1,2-DICHLOROBENZENE	<348.	ug/Kg	348.		
BIS(2-CHLOROISOPROPYL)ETHER	<348.	ug/Kg	348.		
N-NITROSO-DI-N-PROPYLAMINE	<348.	ug/Kg	348.		
HEXACHLOROETHANE	<348.	ug/Kg	348.		
NITROBENZENE	<348.	ug/Kg	348.		
ISOPHORONE	<348.	ug/Kg	348.		
BIS(2-CHLOROETHOXY)METHANE	<348.	ug/Kg	348.		
1,2,4-TRICHLOROBENZENE	<348.	ug/Kg	348.		
NAPHTHALENE	<348.	ug/Kg	348.		
HEXACHLOROBUTADIENE	<348.	ug/Kg	348.		
HEXACHLOROCYCLOPENTADIENE	<348.	ug/Kg	348.		
2-CHLORONAPHTHALENE	<348.	ug/Kg	348.		
DIMETHYLPHTHALATE	<348.	ug/Kg	348.		
ACENAPHTHYLENE	<348.	ug/Kg	348.		
ACENAPHTHENE	<348.	ug/Kg	348.		
2,4-DINITROTOLUENE	<348.	ug/Kg	348.		
2,6-DINITROTOLUENE	<348.	ug/Kg	348.		
DIETHYLPHTHALATE	<348.	ug/Kg	348.		
4-CHLOROPHENYL-PHENYLETHER	<348.	ug/Kg	348.		
FLUORENE	<348.	ug/Kg	348.		
N-NITROSODIPHENYLAMINE (1)	<348.	ug/Kg	348.		
4-BROMOPHENYL PHENYL ETHER	<348.	ug/Kg	348.		
HEXACHLOROBENZENE	<348.	ug/Kg	348.		
PHENANTHRENE	<348.	ug/Kg	348.		
ANTHRACENE	<348.	ug/Kg	348.		
DI-N-BUTYLPHTHALATE	<348.	ug/Kg	348.		
FLUORANTHENE	<348.	ug/Kg	348.		
PYRENE	<348.	ug/Kg	348.		
BUTYLBENZYLPHTHALATE	<348.	ug/Kg	348.		
3,3'-DICHLOROBENZIDINE	<348.	ug/Kg	348.		
BENZO(A)ANTHRACENE	<348.	ug/Kg	348.		
BIS(2-ETHYLHEXYL)PHTHALATE	<348.	ug/Kg	348.		
CHRYSENE	<348.	ug/Kg	348.		
DI-N-OCTYLPHTHALATE	<348.	ug/Kg	348.		
BENZO(B)FLUORANTHENE	<348.	ug/Kg	348.		
BENZO(K)FLUORANTHENE	<348.	ug/Kg	348.		
BENZO(A)PYRENE	<348.	ug/Kg	348.		
INDENO(1,2,3-CD)PYRENE	<348.	ug/Kg	348.		
DIBENZ(A,H)ANTHRACENE	<348.	ug/Kg	348.		
BENZO(G,H,I)PERYLENE	<348.	ug/Kg	348.		
SURROGATE NITROBENZENE-D5	38.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 682

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	42.0	% Recovery			
SURROGATE TERPHENYL-D14	45.0	% Recovery			
1-CHLOROANAPHTHALENE	<348.	ug/Kg	348.	02/11/94	
DIPHENYLAMINE	<1050	ug/Kg	1050	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1690	ug/Kg	1690	02/11/94	
BENZIDINE	<1690	ug/Kg	1690	02/11/94	

SAMPLE ID- 0156HA04(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 683
TIME SAMPLED- 1021
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<342.	ug/Kg	342.		
2-CHLOROPHENOL	<342.	ug/Kg	342.		
2-NITROPHENOL	<342.	ug/Kg	342.		
2,4-DIMETHYLPHENOL	<342.	ug/Kg	342.		
2,4-DICHLOROPHENOL	<342.	ug/Kg	342.		
4-CHLORO-3-METHYLPHENOL	<342.	ug/Kg	342.		
2,4,6-TRICHLOROPHENOL	<342.	ug/Kg	342.		
2,4-DINITROPHENOL	<1660	ug/Kg	1660		
4-NITROPHENOL	<1660	ug/Kg	1660		
4,6-DINITRO-2-METHYLPHENOL	<1660	ug/Kg	1660		
PENTACHLOROPHENOL	<1660	ug/Kg	1660		
2,4,5-TRICHLOROPHENOL	<342.	ug/Kg	342.		
4-METHYLPHENOL	<342.	ug/Kg	342.		
2-METHYLPHENOL	<342.	ug/Kg	342.		
BENZYL ALCOHOL	<342.	ug/Kg	342.		
BENZOIC ACID	<1660	ug/Kg	1660		
2-METHYLNAPHTHALENE	<342.	ug/Kg	342.		
2-NITROANILINE	<1660	ug/Kg	1660		
3-NITROANILINE	<1660	ug/Kg	1660		
4-NITROANILINE	<1660	ug/Kg	1660		
4-CHLOROANILINE	<342.	ug/Kg	342.		
DIBENZOFURAN	<342.	ug/Kg	342.		
SURROGATE PHENOL-D5	66.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	66.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	68.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/11/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 683

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<342.	ug/Kg	342.		
1,3-DICHLOROBENZENE	<342.	ug/Kg	342.		
1,4-DICHLOROBENZENE	<342.	ug/Kg	342.		
1,2-DICHLOROBENZENE	<342.	ug/Kg	342.		
BIS(2-CHLOROISOPROPYL)ETHER	<342.	ug/Kg	342.		
N-NITROSO-DI-N-PROPYLAMINE	<342.	ug/Kg	342.		
HEXACHLOROETHANE	<342.	ug/Kg	342.		
NITROBENZENE	<342.	ug/Kg	342.		
ISOPHORONE	<342.	ug/Kg	342.		
BIS(2-CHLOROETHOXY)METHANE	<342.	ug/Kg	342.		
1,2,4-TRICHLOROBENZENE	<342.	ug/Kg	342.		
NAPHTHALENE	<342.	ug/Kg	342.		
HEXACHLOROBUTADIENE	<342.	ug/Kg	342.		
HEXACHLOROCYCLOPENTADIENE	<342.	ug/Kg	342.		
2-CHLORONAPHTHALENE	<342.	ug/Kg	342.		
DIMETHYLPHTHALATE	<342.	ug/Kg	342.		
ACENAPHTHYLENE	<342.	ug/Kg	342.		
ACENAPHTHENE	<342.	ug/Kg	342.		
2,4-DINITROTOLUENE	<342.	ug/Kg	342.		
2,6-DINITROTOLUENE	<342.	ug/Kg	342.		
DIETHYLPHTHALATE	<342.	ug/Kg	342.		
4-CHLOROPHENYL-PHENYLETHER	<342.	ug/Kg	342.		
FLUORENE	<342.	ug/Kg	342.		
N-NITROSODIPHENYLAMINE (1)	<342.	ug/Kg	342.		
4-BROMOPHENYL PHENYL ETHER	<342.	ug/Kg	342.		
HEXACHLOROBENZENE	<342.	ug/Kg	342.		
PHENANTHRENE	<342.	ug/Kg	342.		
ANTHRACENE	<342.	ug/Kg	342.		
DI-N-BUTYLPHTHALATE	<342.	ug/Kg	342.		
FLUORANTHENE	<342.	ug/Kg	342.		
PYRENE	<342.	ug/Kg	342.		
BUTYLBENZYLPHTHALATE	<342.	ug/Kg	342.		
3,3'-DICHLOROBENZIDINE	<342.	ug/Kg	342.		
BENZO(A)ANTHRACENE	<342.	ug/Kg	342.		
BIS(2-ETHYLHEXYL)PHTHALATE	<342.	ug/Kg	342.		
CHRYSENE	<342.	ug/Kg	342.		
DI-N-OCTYLPHTHALATE	<342.	ug/Kg	342.		
BENZO(B)FLUORANTHENE	<342.	ug/Kg	342.		
BENZO(K)FLUORANTHENE	<342.	ug/Kg	342.		
BENZO(A)PYRENE	<342.	ug/Kg	342.		
INDENO(1,2,3-CD)PYRENE	<342.	ug/Kg	342.		
DIBENZ(A,H)ANTHRACENE	<342.	ug/Kg	342.		
BENZO(G,H,I)PERYLENE	<342.	ug/Kg	342.		
SURROGATE NITROBENZENE-D5	51.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 683

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	57.0	% Recovery			
SURROGATE TERPHENYL-D14	59.0	% Recovery			
1-CHLOROANAPHTHALENE	<342.	ug/Kg	342.	02/11/94	
DIPHENYLAMINE	<1040	ug/Kg	1040	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1660	ug/Kg	1660	02/11/94	
BENZIDINE	<1660	ug/Kg	1660	02/11/94	

SAMPLE ID- 0156HA07(000.0)

SAMPLE NUMBER- 684
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1051
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<342.	ug/Kg	342.		
2-CHLOROPHENOL	<342.	ug/Kg	342.		
2-NITROPHENOL	<342.	ug/Kg	342.		
2,4-DIMETHYLPHENOL	<342.	ug/Kg	342.		
2,4-DICHLOROPHENOL	<342.	ug/Kg	342.		
4-CHLORO-3-METHYLPHENOL	<342.	ug/Kg	342.		
2,4,6-TRICHLOROPHENOL	<342.	ug/Kg	342.		
2,4-DINITROPHENOL	<1660	ug/Kg	1660		
4-NITROPHENOL	<1660	ug/Kg	1660		
4,6-DINITRO-2-METHYLPHENOL	<1660	ug/Kg	1660		
PENTACHLOROPHENOL	<1660	ug/Kg	1660		
2,4,5-TRICHLOROPHENOL	<342.	ug/Kg	342.		
4-METHYLPHENOL	<342.	ug/Kg	342.		
2-METHYLPHENOL	<342.	ug/Kg	342.		
BENZYL ALCOHOL	<342.	ug/Kg	342.		
BENZOIC ACID	<1660	ug/Kg	1660		
2-METHYLNAPHTHALENE	<342.	ug/Kg	342.		
2-NITROANILINE	<1660	ug/Kg	1660		
3-NITROANILINE	<1660	ug/Kg	1660		
4-NITROANILINE	<1660	ug/Kg	1660		
4-CHLOROANILINE	<342.	ug/Kg	342.		
DIBENZOFURAN	<342.	ug/Kg	342.		
SURROGATE PHENOL-D5	67.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	69.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	71.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 684

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<342.	ug/Kg	342.		
1,3-DICHLOROBENZENE	<342.	ug/Kg	342.		
1,4-DICHLOROBENZENE	<342.	ug/Kg	342.		
1,2-DICHLOROBENZENE	<342.	ug/Kg	342.		
BIS(2-CHLOROISOPROPYL)ETHER	<342.	ug/Kg	342.		
N-NITROSO-DI-N-PROPYLAMINE	<342.	ug/Kg	342.		
HEXACHLOROETHANE	<342.	ug/Kg	342.		
NITROBENZENE	<342.	ug/Kg	342.		
ISOPHORONE	<342.	ug/Kg	342.		
BIS(2-CHLOROETHOXY)METHANE	<342.	ug/Kg	342.		
1,2,4-TRICHLOROBENZENE	<342.	ug/Kg	342.		
NAPHTHALENE	<342.	ug/Kg	342.		
HEXACHLOROBUTADIENE	<342.	ug/Kg	342.		
HEXACHLOROCYCLOPENTADIENE	<342.	ug/Kg	342.		
2-CHLORONAPHTHALENE	<342.	ug/Kg	342.		
DIMETHYLPHTHALATE	<342.	ug/Kg	342.		
ACENAPHTHYLENE	<342.	ug/Kg	342.		
ACENAPHTHENE	<342.	ug/Kg	342.		
2,4-DINITROTOLUENE	<342.	ug/Kg	342.		
2,6-DINITROTOLUENE	<342.	ug/Kg	342.		
DIETHYLPHTHALATE	<342.	ug/Kg	342.		
4-CHLOROPHENYL-PHENYLETHER	<342.	ug/Kg	342.		
FLUORENE	<342.	ug/Kg	342.		
N-NITROSODIPHENYLAMINE (1)	<342.	ug/Kg	342.		
4-BROMOPHENYL PHENYL ETHER	<342.	ug/Kg	342.		
HEXACHLOROBENZENE	<342.	ug/Kg	342.		
PHENANTHRENE	<342.	ug/Kg	342.		
ANTHRACENE	<342.	ug/Kg	342.		
DI-N-BUTYLPHTHALATE	<342.	ug/Kg	342.		
FLUORANTHENE	<342.	ug/Kg	342.		
PYRENE	<342.	ug/Kg	342.		
BUTYLBENZYLPHTHALATE	<342.	ug/Kg	342.		
3,3'-DICHLOROBENZIDINE	<342.	ug/Kg	342.		
BENZO(A)ANTHRACENE	<342.	ug/Kg	342.		
BIS(2-ETHYLHEXYL)PHTHALATE	<342.	ug/Kg	342.		
CHRYSENE	<342.	ug/Kg	342.		
DI-N-OCTYLPHTHALATE	<342.	ug/Kg	342.		
BENZO(B)FLUORANTHENE	<342.	ug/Kg	342.		
BENZO(K)FLUORANTHENE	<342.	ug/Kg	342.		
BENZO(A)PYRENE	<342.	ug/Kg	342.		
INDENO(1,2,3-CD)PYRENE	<342.	ug/Kg	342.		
DIBENZ(A,H)ANTHRACENE	<342.	ug/Kg	342.		
BENZO(G,H,I)PERYLENE	<342.	ug/Kg	342.		
SURROGATE NITROBENZENE-D5	50.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 684

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	63.0	% Recovery			
SURROGATE TERPHENYL-D14	59.0	% Recovery			
1-CHLOROANAPHTHALENE	<342.	ug/Kg	342.	02/11/94	
DIPHENYLAMINE	<1040	ug/Kg	1040	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1660	ug/Kg	1660	02/11/94	
BENZIDINE	<1660	ug/Kg	1660	02/11/94	

SAMPLE ID- 0156HA07(002.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 685 **TIME SAMPLED- 1053** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<338.	ug/Kg	338.		
2-CHLOROPHENOL	<338.	ug/Kg	338.		
2-NITROPHENOL	<338.	ug/Kg	338.		
2,4-DIMETHYLPHENOL	<338.	ug/Kg	338.		
2,4-DICHLOROPHENOL	<338.	ug/Kg	338.		
4-CHLORO-3-METHYLPHENOL	<338.	ug/Kg	338.		
2,4,6-TRICHLOROPHENOL	<338.	ug/Kg	338.		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	<1640	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	<1640	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<338.	ug/Kg	338.		
4-METHYLPHENOL	<338.	ug/Kg	338.		
2-METHYLPHENOL	<338.	ug/Kg	338.		
BENZYL ALCOHOL	<338.	ug/Kg	338.		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<338.	ug/Kg	338.		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<338.	ug/Kg	338.		
DIBENZOFURAN	<338.	ug/Kg	338.		
SURROGATE PHENOL-D5	69.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	67.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	71.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/11/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 685

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<338.	ug/Kg	338.		
1,3-DICHLOROBENZENE	<338.	ug/Kg	338.		
1,4-DICHLOROBENZENE	<338.	ug/Kg	338.		
1,2-DICHLOROBENZENE	<338.	ug/Kg	338.		
BIS(2-CHLOROISOPROPYL)ETHER	<338.	ug/Kg	338.		
N-NITROSO-DI-N-PROPYLAMINE	<338.	ug/Kg	338.		
HEXACHLOROETHANE	<338.	ug/Kg	338.		
NITROBENZENE	<338.	ug/Kg	338.		
ISOPHORONE	<338.	ug/Kg	338.		
BIS(2-CHLOROETHOXY)METHANE	<338.	ug/Kg	338.		
1,2,4-TRICHLOROBENZENE	<338.	ug/Kg	338.		
NAPHTHALENE	<338.	ug/Kg	338.		
HEXACHLOROBUTADIENE	<338.	ug/Kg	338.		
HEXACHLOROCYCLOPENTADIENE	<338.	ug/Kg	338.		
2-CHLORONAPHTHALENE	<338.	ug/Kg	338.		
DIMETHYLPHTHALATE	<338.	ug/Kg	338.		
ACENAPHTHYLENE	<338.	ug/Kg	338.		
ACENAPHTHENE	<338.	ug/Kg	338.		
2,4-DINITROTOLUENE	<338.	ug/Kg	338.		
2,6-DINITROTOLUENE	<338.	ug/Kg	338.		
DIETHYLPHTHALATE	<338.	ug/Kg	338.		
4-CHLOROPHENYL-PHENYLETHER	<338.	ug/Kg	338.		
FLUORENE	<338.	ug/Kg	338.		
N-NITROSODIPHENYLAMINE (1)	<338.	ug/Kg	338.		
4-BROMOPHENYL PHENYL ETHER	<338.	ug/Kg	338.		
HEXACHLOROBENZENE	<338.	ug/Kg	338.		
PHENANTHRENE	<338.	ug/Kg	338.		
ANTHRACENE	<338.	ug/Kg	338.		
DI-N-BUTYLPHTHALATE	<338.	ug/Kg	338.		
FLUORANTHENE	<338.	ug/Kg	338.		
PYRENE	<338.	ug/Kg	338.		
BUTYLBENZYLPHTHALATE	<338.	ug/Kg	338.		
3,3'-DICHLOROBENZIDINE	<338.	ug/Kg	338.		
BENZO(A)ANTHRACENE	<338.	ug/Kg	338.		
BIS(2-ETHYLHEXYL)PHTHALATE	<338.	ug/Kg	338.		
CHRYSENE	<338.	ug/Kg	338.		
DI-N-OCTYLPHTHALATE	<338.	ug/Kg	338.		
BENZO(B)FLUORANTHENE	<338.	ug/Kg	338.		
BENZO(K)FLUORANTHENE	<338.	ug/Kg	338.		
BENZO(A)PYRENE	<338.	ug/Kg	338.		
INDENO(1,2,3-CD)PYRENE	<338.	ug/Kg	338.		
DIBENZ(A,H)ANTHRACENE	<338.	ug/Kg	338.		
BENZO(G,H,I)PERYLENE	<338.	ug/Kg	338.		
SURROGATE NITROBENZENE-D5	52.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 685

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	58.0	% Recovery			
SURROGATE TERPHENYL-D14	62.0	% Recovery			
1-CHLOROANAPHTHALENE	<338.	ug/Kg	338.	02/11/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/11/94	
BENZIDINE	<1640	ug/Kg	1640	02/11/94	

SAMPLE ID- 0156HA07(004.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 686 **TIME SAMPLED- 1123** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<337.	ug/Kg	337.		
2-CHLOROPHENOL	<337.	ug/Kg	337.		
2-NITROPHENOL	<337.	ug/Kg	337.		
2,4-DIMETHYLPHENOL	<337.	ug/Kg	337.		
2,4-DICHLOROPHENOL	<337.	ug/Kg	337.		
4-CHLORO-3-METHYLPHENOL	<337.	ug/Kg	337.		
2,4,6-TRICHLOROPHENOL	<337.	ug/Kg	337.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<337.	ug/Kg	337.		
4-METHYLPHENOL	<337.	ug/Kg	337.		
2-METHYLPHENOL	<337.	ug/Kg	337.		
BENZYL ALCOHOL	<337.	ug/Kg	337.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<337.	ug/Kg	337.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<337.	ug/Kg	337.		
DIBENZOFURAN	<337.	ug/Kg	337.		
SURROGATE PHENOL-D5	34.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	30.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	56.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/11/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 686

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337.	ug/Kg	337.		
1,3-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,4-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,2-DICHLOROBENZENE	<337.	ug/Kg	337.		
BIS(2-CHLOROISOPROPYL)ETHER	<337.	ug/Kg	337.		
N-NITROSO-DI-N-PROPYLAMINE	<337.	ug/Kg	337.		
HEXACHLOROETHANE	<337.	ug/Kg	337.		
NITROBENZENE	<337.	ug/Kg	337.		
ISOPHORONE	<337.	ug/Kg	337.		
BIS(2-CHLOROETHOXY)METHANE	<337.	ug/Kg	337.		
1,2,4-TRICHLOROBENZENE	<337.	ug/Kg	337.		
NAPHTHALENE	<337.	ug/Kg	337.		
HEXACHLOROBUTADIENE	<337.	ug/Kg	337.		
HEXACHLOROCYCLOPENTADIENE	<337.	ug/Kg	337.		
2-CHLORONAPHTHALENE	<337.	ug/Kg	337.		
DIMETHYLPHTHALATE	<337.	ug/Kg	337.		
ACENAPHTHYLENE	<337.	ug/Kg	337.		
ACENAPHTHENE	<337.	ug/Kg	337.		
2,4-DINITROTOLUENE	<337.	ug/Kg	337.		
2,6-DINITROTOLUENE	<337.	ug/Kg	337.		
DIETHYLPHTHALATE	<337.	ug/Kg	337.		
4-CHLOROPHENYL-PHENYLETHER	<337.	ug/Kg	337.		
FLUORENE	<337.	ug/Kg	337.		
N-NITROSODIPHENYLAMINE (1)	<337.	ug/Kg	337.		
4-BROMOPHENYL PHENYL ETHER	<337.	ug/Kg	337.		
HEXACHLOROBENZENE	<337.	ug/Kg	337.		
PHENANTHRENE	<337.	ug/Kg	337.		
ANTHRACENE	<337.	ug/Kg	337.		
DI-N-BUTYLPHTHALATE	<337.	ug/Kg	337.		
FLUORANTHENE	<337.	ug/Kg	337.		
PYRENE	<337.	ug/Kg	337.		
BUTYLBENZYLPHTHALATE	<337.	ug/Kg	337.		
3,3'-DICHLOROBENZIDINE	<337.	ug/Kg	337.		
BENZO(A)ANTHRACENE	<337.	ug/Kg	337.		
BIS(2-ETHYLHEXYL)PHTHALATE	<337.	ug/Kg	337.		
CHRYSENE	<337.	ug/Kg	337.		
DI-N-OCTYLPHTHALATE	<337.	ug/Kg	337.		
BENZO(B)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(K)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(A)PYRENE	<337.	ug/Kg	337.		
INDENO(1,2,3-CD)PYRENE	<337.	ug/Kg	337.		
DIBENZ(A,H)ANTHRACENE	<337.	ug/Kg	337.		
BENZO(G,H,I)PERYLENE	<337.	ug/Kg	337.		
SURROGATE NITROBENZENE-D5	39.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 686

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	43.0	% Recovery			
SURROGATE TERPHENYL-D14	41.0	% Recovery			
1-CHLOROANAPHTHALENE	<337.	ug/Kg	337.	02/11/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/11/94	
BENZIDINE	<1630	ug/Kg	1630	02/11/94	

SAMPLE ID- 0156HA08(003.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 689 **TIME SAMPLED- 1222** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<335.	ug/Kg	335.		
2-CHLOROPHENOL	<335.	ug/Kg	335.		
2-NITROPHENOL	<335.	ug/Kg	335.		
2,4-DIMETHYLPHENOL	<335.	ug/Kg	335.		
2,4-DICHLOROPHENOL	<335.	ug/Kg	335.		
4-CHLORO-3-METHYLPHENOL	<335.	ug/Kg	335.		
2,4,6-TRICHLOROPHENOL	<335.	ug/Kg	335.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<335.	ug/Kg	335.		
4-METHYLPHENOL	<335.	ug/Kg	335.		
2-METHYLPHENOL	<335.	ug/Kg	335.		
BENZYL ALCOHOL	<335.	ug/Kg	335.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<335.	ug/Kg	335.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<335.	ug/Kg	335.		
DIBENZOFURAN	<335.	ug/Kg	335.		
SURROGATE PHENOL-D5	58.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	58.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	59.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 689

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<335.	ug/Kg	335.		
1,3-DICHLOROBENZENE	<335.	ug/Kg	335.		
1,4-DICHLOROBENZENE	<335.	ug/Kg	335.		
1,2-DICHLOROBENZENE	<335.	ug/Kg	335.		
BIS(2-CHLOROISOPROPYL)ETHER	<335.	ug/Kg	335.		
N-NITROSO-DI-N-PROPYLAMINE	<335.	ug/Kg	335.		
HEXACHLOROETHANE	<335.	ug/Kg	335.		
NITROBENZENE	<335.	ug/Kg	335.		
ISOPHORONE	<335.	ug/Kg	335.		
BIS(2-CHLOROETHOXY)METHANE	<335.	ug/Kg	335.		
1,2,4-TRICHLOROBENZENE	<335.	ug/Kg	335.		
NAPHTHALENE	<335.	ug/Kg	335.		
HEXACHLOROBUTADIENE	<335.	ug/Kg	335.		
HEXACHLOROCYCLOPENTADIENE	<335.	ug/Kg	335.		
2-CHLORONAPHTHALENE	<335.	ug/Kg	335.		
DIMETHYLPHTHALATE	<335.	ug/Kg	335.		
ACENAPHTHYLENE	<335.	ug/Kg	335.		
ACENAPHTHENE	<335.	ug/Kg	335.		
2,4-DINITROTOLUENE	<335.	ug/Kg	335.		
2,6-DINITROTOLUENE	<335.	ug/Kg	335.		
DIETHYLPHTHALATE	<335.	ug/Kg	335.		
4-CHLOROPHENYL-PHENYLETHER	<335.	ug/Kg	335.		
FLUORENE	<335.	ug/Kg	335.		
N-NITROSODIPHENYLAMINE (1)	<335.	ug/Kg	335.		
4-BROMOPHENYL PHENYL ETHER	<335.	ug/Kg	335.		
HEXACHLOROBENZENE	<335.	ug/Kg	335.		
PHENANTHRENE	<335.	ug/Kg	335.		
ANTHRACENE	<335.	ug/Kg	335.		
DI-N-BUTYLPHTHALATE	<335.	ug/Kg	335.		
FLUORANTHENE	<335.	ug/Kg	335.		
PYRENE	<335.	ug/Kg	335.		
BUTYLBENZYLPHTHALATE	<335.	ug/Kg	335.		
3,3'-DICHLOROBENZIDINE	<335.	ug/Kg	335.		
BENZO(A)ANTHRACENE	<335.	ug/Kg	335.		
BIS(2-ETHYLHEXYL)PHTHALATE	<335.	ug/Kg	335.		
CHRYSENE	<335.	ug/Kg	335.		
DI-N-OCTYLPHTHALATE	<335.	ug/Kg	335.		
BENZO(B)FLUORANTHENE	<335.	ug/Kg	335.		
BENZO(K)FLUORANTHENE	<335.	ug/Kg	335.		
BENZO(A)PYRENE	<335.	ug/Kg	335.		
INDENO(1,2,3-CD)PYRENE	<335.	ug/Kg	335.		
DIBENZ(A,H)ANTHRACENE	<335.	ug/Kg	335.		
BENZO(G,H,I)PERYLENE	<335.	ug/Kg	335.		
SURROGATE NITROBENZENE-D5	44.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 689

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	49.0	% Recovery			
SURROGATE TERPHENYL-D14	47.0	% Recovery			
1-CHLOROANAPHTHALENE	<335.	ug/Kg	335.	02/11/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/11/94	
BENZIDINE	<1630	ug/Kg	1630	02/11/94	

SAMPLE ID- 0156HA09(000.0) **TIME RECEIVED- 0915**
DATE SAMPLED- 01/10/94 **DELIVERED BY- FED. EXP.**
SAMPLE NUMBER- 690 **TIME SAMPLED- 1150** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 01/12/94** **SAMPLER- CLIENT**

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<336.	ug/Kg	336.		
2-CHLOROPHENOL	<336.	ug/Kg	336.		
2-NITROPHENOL	<336.	ug/Kg	336.		
2,4-DIMETHYLPHENOL	<336.	ug/Kg	336.		
2,4-DICHLOROPHENOL	<336.	ug/Kg	336.		
4-CHLORO-3-METHYLPHENOL	<336.	ug/Kg	336.		
2,4,6-TRICHLOROPHENOL	<336.	ug/Kg	336.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<336.	ug/Kg	336.		
4-METHYLPHENOL	<336.	ug/Kg	336.		
2-METHYLPHENOL	<336.	ug/Kg	336.		
BENZYL ALCOHOL	<336.	ug/Kg	336.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<336.	ug/Kg	336.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<336.	ug/Kg	336.		
DIBENZOFURAN	<336.	ug/Kg	336.		
SURROGATE PHENOL-D5	56.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	58.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	62.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/11/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 690

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<336.	ug/Kg	336.		
1,3-DICHLOROBENZENE	<336.	ug/Kg	336.		
1,4-DICHLOROBENZENE	<336.	ug/Kg	336.		
1,2-DICHLOROBENZENE	<336.	ug/Kg	336.		
BIS(2-CHLOROISOPROPYL)ETHER	<336.	ug/Kg	336.		
N-NITROSO-DI-N-PROPYLAMINE	<336.	ug/Kg	336.		
HEXACHLOROETHANE	<336.	ug/Kg	336.		
NITROBENZENE	<336.	ug/Kg	336.		
ISOPHORONE	<336.	ug/Kg	336.		
BIS(2-CHLOROETHOXY)METHANE	<336.	ug/Kg	336.		
1,2,4-TRICHLOROBENZENE	<336.	ug/Kg	336.		
NAPHTHALENE	<336.	ug/Kg	336.		
HEXACHLOROBUTADIENE	<336.	ug/Kg	336.		
HEXACHLOROCYCLOPENTADIENE	<336.	ug/Kg	336.		
2-CHLORONAPHTHALENE	<336.	ug/Kg	336.		
DIMETHYLPHTHALATE	<336.	ug/Kg	336.		
ACENAPHTHYLENE	<336.	ug/Kg	336.		
ACENAPHTHENE	<336.	ug/Kg	336.		
2,4-DINITROTOLUENE	<336.	ug/Kg	336.		
2,6-DINITROTOLUENE	<336.	ug/Kg	336.		
DIETHYLPHTHALATE	<336.	ug/Kg	336.		
4-CHLOROPHENYL-PHENYLETHER	<336.	ug/Kg	336.		
FLUORENE	<336.	ug/Kg	336.		
N-NITROSODIPHENYLAMINE (1)	<336.	ug/Kg	336.		
4-BROMOPHENYL PHENYL ETHER	<336.	ug/Kg	336.		
HEXACHLOROBENZENE	<336.	ug/Kg	336.		
PHENANTHRENE	<336.	ug/Kg	336.		
ANTHRACENE	<336.	ug/Kg	336.		
DI-N-BUTYLPHTHALATE	<336.	ug/Kg	336.		
FLUORANTHENE	<336.	ug/Kg	336.		
PYRENE	<336.	ug/Kg	336.		
BUTYLBENZYLPHTHALATE	<336.	ug/Kg	336.		
3,3'-DICHLOROBENZIDINE	<336.	ug/Kg	336.		
BENZO(A)ANTHRACENE	<336.	ug/Kg	336.		
BIS(2-ETHYLHEXYL)PHTHALATE	<336.	ug/Kg	336.		
CHRYSENE	<336.	ug/Kg	336.		
DI-N-OCTYLPHTHALATE	<336.	ug/Kg	336.		
BENZO(B)FLUORANTHENE	<336.	ug/Kg	336.		
BENZO(K)FLUORANTHENE	<336.	ug/Kg	336.		
BENZO(A)PYRENE	<336.	ug/Kg	336.		
INDENO(1,2,3-CD)PYRENE	<336.	ug/Kg	336.		
DIBENZ(A,H)ANTHRACENE	<336.	ug/Kg	336.		
BENZO(G,H,I)PERYLENE	<336.	ug/Kg	336.		
SURROGATE NITROBENZENE-D5	39.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 690

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	46.0	% Recovery			
SURROGATE TERPHENYL-D14	49.0	% Recovery			
1-CHLOROANAPHTHALENE	<336.	ug/Kg	336.	02/11/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/11/94	
BENZIDINE	<1630	ug/Kg	1630	02/11/94	

SAMPLE ID- 0156HA09(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 691
TIME SAMPLED- 1155
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/14/94	8270
PHENOL	<339.	ug/Kg	339.		
2-CHLOROPHENOL	<339.	ug/Kg	339.		
2-NITROPHENOL	<339.	ug/Kg	339.		
2,4-DIMETHYLPHENOL	<339.	ug/Kg	339.		
2,4-DICHLOROPHENOL	<339.	ug/Kg	339.		
4-CHLORO-3-METHYLPHENOL	<339.	ug/Kg	339.		
2,4,6-TRICHLOROPHENOL	<339.	ug/Kg	339.		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	<1640	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	<1640	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<339.	ug/Kg	339.		
4-METHYLPHENOL	<339.	ug/Kg	339.		
2-METHYLPHENOL	<339.	ug/Kg	339.		
BENZYL ALCOHOL	<339.	ug/Kg	339.		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<339.	ug/Kg	339.		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<339.	ug/Kg	339.		
DIBENZOFURAN	<339.	ug/Kg	339.		
SURROGATE PHENOL-D5	90.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	87.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	85.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/14/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 691

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<339.	ug/Kg	339.		
1,3-DICHLOROBENZENE	<339.	ug/Kg	339.		
1,4-DICHLOROBENZENE	<339.	ug/Kg	339.		
1,2-DICHLOROBENZENE	<339.	ug/Kg	339.		
BIS(2-CHLOROISOPROPYL)ETHER	<339.	ug/Kg	339.		
N-NITROSO-DI-N-PROPYLAMINE	<339.	ug/Kg	339.		
HEXACHLOROETHANE	<339.	ug/Kg	339.		
NITROBENZENE	<339.	ug/Kg	339.		
ISOPHORONE	<339.	ug/Kg	339.		
BIS(2-CHLOROETHOXY)METHANE	<339.	ug/Kg	339.		
1,2,4-TRICHLOROBENZENE	<339.	ug/Kg	339.		
NAPHTHALENE	<339.	ug/Kg	339.		
HEXACHLOROBUTADIENE	<339.	ug/Kg	339.		
HEXACHLOROCYCLOPENTADIENE	<339.	ug/Kg	339.		
2-CHLORONAPHTHALENE	<339.	ug/Kg	339.		
DIMETHYLPHTHALATE	<339.	ug/Kg	339.		
ACENAPHTHYLENE	<339.	ug/Kg	339.		
ACENAPHTHENE	<339.	ug/Kg	339.		
2,4-DINITROTOLUENE	<339.	ug/Kg	339.		
2,6-DINITROTOLUENE	<339.	ug/Kg	339.		
DIETHYLPHTHALATE	<339.	ug/Kg	339.		
4-CHLOROPHENYL-PHENYLETHER	<339.	ug/Kg	339.		
FLUORENE	<339.	ug/Kg	339.		
N-NITROSODIPHENYLAMINE (1)	<339.	ug/Kg	339.		
4-BROMOPHENYL PHENYL ETHER	<339.	ug/Kg	339.		
HEXACHLOROBENZENE	<339.	ug/Kg	339.		
PHENANTHRENE	<339.	ug/Kg	339.		
ANTHRACENE	<339.	ug/Kg	339.		
DI-N-BUTYLPHTHALATE	<339.	ug/Kg	339.		
FLUORANTHENE	<339.	ug/Kg	339.		
PYRENE	<339.	ug/Kg	339.		
BUTYLBENZYLPHTHALATE	<339.	ug/Kg	339.		
3,3'-DICHLOROBENZIDINE	<339.	ug/Kg	339.		
BENZO(A)ANTHRACENE	<339.	ug/Kg	339.		
BIS(2-ETHYLHEXYL)PHTHALATE	<339.	ug/Kg	339.		
CHRYSENE	<339.	ug/Kg	339.		
DI-N-OCTYLPHTHALATE	<339.	ug/Kg	339.		
BENZO(B)FLUORANTHENE	<339.	ug/Kg	339.		
BENZO(K)FLUORANTHENE	<339.	ug/Kg	339.		
BENZO(A)PYRENE	<339.	ug/Kg	339.		
INDENO(1,2,3-CD)PYRENE	<339.	ug/Kg	339.		
DIBENZ(A,H)ANTHRACENE	<339.	ug/Kg	339.		
BENZO(G,H,I)PERYLENE	<339.	ug/Kg	339.		
SURROGATE NITROBENZENE-D5	75.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 691

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	78.0	% Recovery			
SURROGATE TERPHENYL-D14	84.0	% Recovery			
1-CHLOROANAPHTHALENE	<339.	ug/Kg	339.	02/14/94	
DIPHENYLAMINE	<1030	ug/Kg	1030	02/14/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/14/94	
BENZIDINE	<1640	ug/Kg	1640	02/14/94	

SAMPLE ID- 0156HA09(002.0)QC
SAMPLE NUMBER- 692
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1155
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/14/94	8270
PHENOL	<338	ug/Kg	338		
2-CHLOROPHENOL	<338	ug/Kg	338		
2-NITROPHENOL	<338	ug/Kg	338		
2,4-DIMETHYLPHENOL	<338	ug/Kg	338		
2,4-DICHLOROPHENOL	<338	ug/Kg	338		
4-CHLORO-3-METHYLPHENOL	<338	ug/Kg	338		
2,4,6-TRICHLOROPHENOL	<338	ug/Kg	338		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	<1640	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	<1640	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<338	ug/Kg	338		
4-METHYLPHENOL	<338	ug/Kg	338		
2-METHYLPHENOL	<338	ug/Kg	338		
BENZYL ALCOHOL	<338	ug/Kg	338		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<338	ug/Kg	338		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<338	ug/Kg	338		
DIBENZOFURAN	<338	ug/Kg	338		
SURROGATE PHENOL-D5	70.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	70.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	60.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/14/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 692

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<338	ug/Kg	338		
1,3-DICHLOROBENZENE	<338	ug/Kg	338		
1,4-DICHLOROBENZENE	<338	ug/Kg	338		
1,2-DICHLOROBENZENE	<338	ug/Kg	338		
BIS(2-CHLOROISOPROPYL)ETHER	<338	ug/Kg	338		
N-NITROSO-DI-N-PROPYLAMINE	<338	ug/Kg	338		
HEXACHLOROETHANE	<338	ug/Kg	338		
NITROBENZENE	<338	ug/Kg	338		
ISOPHORONE	<338	ug/Kg	338		
BIS(2-CHLOROETHOXY)METHANE	<338	ug/Kg	338		
1,2,4-TRICHLOROBENZENE	<338	ug/Kg	338		
NAPHTHALENE	<338	ug/Kg	338		
HEXACHLOROBUTADIENE	<338	ug/Kg	338		
HEXACHLOROCYCLOPENTADIENE	<338	ug/Kg	338		
2-CHLORONAPHTHALENE	<338	ug/Kg	338		
DIMETHYLPHTHALATE	<338	ug/Kg	338		
ACENAPHTHYLENE	<338	ug/Kg	338		
ACENAPHTHENE	<338	ug/Kg	338		
2,4-DINITROTOLUENE	<338	ug/Kg	338		
2,6-DINITROTOLUENE	<338	ug/Kg	338		
DIETHYLPHTHALATE	<338	ug/Kg	338		
4-CHLOROPHENYL-PHENYLETHER	<338	ug/Kg	338		
FLUORENE	<338	ug/Kg	338		
N-NITROSODIPHENYLAMINE (1)	<338	ug/Kg	338		
4-BROMOPHENYL PHENYL ETHER	<338	ug/Kg	338		
HEXACHLOROBENZENE	<338	ug/Kg	338		
PHENANTHRENE	<338	ug/Kg	338		
ANTHRACENE	<338	ug/Kg	338		
DI-N-BUTYLPHTHALATE	<338	ug/Kg	338		
FLUORANTHENE	<338	ug/Kg	338		
PYRENE	<338	ug/Kg	338		
BUTYLBENZYLPHTHALATE	<338	ug/Kg	338		
3,3'-DICHLOROBENZIDINE	<338	ug/Kg	338		
BENZO(A)ANTHRACENE	<338	ug/Kg	338		
BIS(2-ETHYLHEXYL)PHTHALATE	<338	ug/Kg	338		
CHRYSENE	<338	ug/Kg	338		
DI-N-OCTYLPHTHALATE	<338	ug/Kg	338		
BENZO(B)FLUORANTHENE	<338	ug/Kg	338		
BENZO(K)FLUORANTHENE	<338	ug/Kg	338		
BENZO(A)PYRENE	<338	ug/Kg	338		
INDENO(1,2,3-CD)PYRENE	<338	ug/Kg	338		
DIBENZ(A,H)ANTHRACENE	<338	ug/Kg	338		
BENZO(G,H,I)PERYLENE	<338	ug/Kg	338		
SURROGATE NITROBENZENE-D5	57.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 692

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	56.0	% Recovery			
SURROGATE TERPHENYL-D14	58.0	% Recovery			
1-CHLOROANAPHTHALENE	<338	ug/Kg	338	02/14/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/14/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/14/94	
BENZIDINE	<1640	ug/Kg	1640	02/14/94	

SAMPLE ID- 0156HA09(004.0)

SAMPLE NUMBER- 693
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1204
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/14/94	8270
PHENOL	<335	ug/Kg	335		
2-CHLOROPHENOL	<335	ug/Kg	335		
2-NITROPHENOL	<335	ug/Kg	335		
2,4-DIMETHYLPHENOL	<335	ug/Kg	335		
2,4-DICHLOROPHENOL	<335	ug/Kg	335		
4-CHLORO-3-METHYLPHENOL	<335	ug/Kg	335		
2,4,6-TRICHLOROPHENOL	<335	ug/Kg	335		
2,4-DINITROPHENOL	<1620	ug/Kg	1620		
4-NITROPHENOL	<1620	ug/Kg	1620		
4,6-DINITRO-2-METHYLPHENOL	<1620	ug/Kg	1620		
PENTACHLOROPHENOL	<1620	ug/Kg	1620		
2,4,5-TRICHLOROPHENOL	<335	ug/Kg	335		
4-METHYLPHENOL	<335	ug/Kg	335		
2-METHYLPHENOL	<335	ug/Kg	335		
BENZYL ALCOHOL	<335	ug/Kg	335		
BENZOIC ACID	<1620	ug/Kg	1620		
2-METHYLNAPHTHALENE	<335	ug/Kg	335		
2-NITROANILINE	<1620	ug/Kg	1620		
3-NITROANILINE	<1620	ug/Kg	1620		
4-NITROANILINE	<1620	ug/Kg	1620		
4-CHLOROANILINE	<335	ug/Kg	335		
DIBENZOFURAN	<335	ug/Kg	335		
SURROGATE PHENOL-D5	37.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	37.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	28.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/14/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 693

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<335	ug/Kg	335		
1,3-DICHLOROBENZENE	<335	ug/Kg	335		
1,4-DICHLOROBENZENE	<335	ug/Kg	335		
1,2-DICHLOROBENZENE	<335	ug/Kg	335		
BIS(2-CHLOROISOPROPYL)ETHER	<335	ug/Kg	335		
N-NITROSO-DI-N-PROPYLAMINE	<335	ug/Kg	335		
HEXACHLOROETHANE	<335	ug/Kg	335		
NITROBENZENE	<335	ug/Kg	335		
ISOPHORONE	<335	ug/Kg	335		
BIS(2-CHLOROETHOXY)METHANE	<335	ug/Kg	335		
1,2,4-TRICHLOROBENZENE	<335	ug/Kg	335		
NAPHTHALENE	<335	ug/Kg	335		
HEXACHLOROBUTADIENE	<335	ug/Kg	335		
HEXACHLOROCYCLOPENTADIENE	<335	ug/Kg	335		
2-CHLORONAPHTHALENE	<335	ug/Kg	335		
DIMETHYLPHTHALATE	<335	ug/Kg	335		
ACENAPHTHYLENE	<335	ug/Kg	335		
ACENAPHTHENE	<335	ug/Kg	335		
2,4-DINITROTOLUENE	<335	ug/Kg	335		
2,6-DINITROTOLUENE	<335	ug/Kg	335		
DIETHYLPHTHALATE	<335	ug/Kg	335		
4-CHLOROPHENYL-PHENYLETHER	<335	ug/Kg	335		
FLUORENE	<335	ug/Kg	335		
N-NITROSODIPHENYLAMINE (1)	<335	ug/Kg	335		
4-BROMOPHENYL PHENYL ETHER	<335	ug/Kg	335		
HEXACHLOROBENZENE	<335	ug/Kg	335		
PHENANTHRENE	<335	ug/Kg	335		
ANTHRACENE	<335	ug/Kg	335		
DI-N-BUTYLPHTHALATE	<335	ug/Kg	335		
FLUORANTHENE	<335	ug/Kg	335		
PYRENE	<335	ug/Kg	335		
BUTYLBENZYLPHTHALATE	<335	ug/Kg	335		
3,3'-DICHLOROBENZIDINE	<335	ug/Kg	335		
BENZO(A)ANTHRACENE	<335	ug/Kg	335		
BIS(2-ETHYLHEXYL)PHTHALATE	<335	ug/Kg	335		
CHRYSENE	<335	ug/Kg	335		
DI-N-OCTYLPHTHALATE	<335	ug/Kg	335		
BENZO(B)FLUORANTHENE	<335	ug/Kg	335		
BENZO(K)FLUORANTHENE	<335	ug/Kg	335		
BENZO(A)PYRENE	<335	ug/Kg	335		
INDENO(1,2,3-CD)PYRENE	<335	ug/Kg	335		
DIBENZ(A,H)ANTHRACENE	<335	ug/Kg	335		
BENZO(G,H,I)PERYLENE	<335	ug/Kg	335		
SURROGATE NITROBENZENE-D5	30.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 693

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	30.0	% Recovery			
SURROGATE TERPHENYL-D14	30.0	% Recovery			
1-CHLOROANAPHTHALENE	<335	ug/Kg	335	02/14/94	
DIPHENYLAMINE	<1010	ug/Kg	1010	02/14/94	
1,2-DIPHENYLHYDRAZINE	<1620	ug/Kg	1620	02/14/94	
BENZIDINE	<1620	ug/Kg	1620	02/14/94	

SAMPLE ID- 0156HA10(000.0)
SAMPLE NUMBER- 694
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/10/94
TIME SAMPLED- 1152
DATE RECEIVED- 01/12/94
TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/14/94	8270
PHENOL	<337	ug/Kg	337		
2-CHLOROPHENOL	<337	ug/Kg	337		
2-NITROPHENOL	<337	ug/Kg	337		
2,4-DIMETHYLPHENOL	<337	ug/Kg	337		
2,4-DICHLOROPHENOL	<337	ug/Kg	337		
4-CHLORO-3-METHYLPHENOL	<337	ug/Kg	337		
2,4,6-TRICHLOROPHENOL	<337	ug/Kg	337		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<337	ug/Kg	337		
4-METHYLPHENOL	<337	ug/Kg	337		
2-METHYLPHENOL	<337	ug/Kg	337		
BENZYL ALCOHOL	<337	ug/Kg	337		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<337	ug/Kg	337		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<337	ug/Kg	337		
DIBENZOFURAN	<337	ug/Kg	337		
SURROGATE PHENOL-D5	69.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	70.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	66.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/14/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 694

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337	ug/Kg	337		
1,3-DICHLOROBENZENE	<337	ug/Kg	337		
1,4-DICHLOROBENZENE	<337	ug/Kg	337		
1,2-DICHLOROBENZENE	<337	ug/Kg	337		
BIS(2-CHLOROISOPROPYL)ETHER	<337	ug/Kg	337		
N-NITROSO-DI-N-PROPYLAMINE	<337	ug/Kg	337		
HEXACHLOROETHANE	<337	ug/Kg	337		
NITROBENZENE	<337	ug/Kg	337		
ISOPHORONE	<337	ug/Kg	337		
BIS(2-CHLOROETHOXY)METHANE	<337	ug/Kg	337		
1,2,4-TRICHLOROBENZENE	<337	ug/Kg	337		
NAPHTHALENE	<337	ug/Kg	337		
HEXACHLOROBUTADIENE	<337	ug/Kg	337		
HEXACHLOROCYCLOPENTADIENE	<337	ug/Kg	337		
2-CHLORONAPHTHALENE	<337	ug/Kg	337		
DIMETHYLPHTHALATE	<337	ug/Kg	337		
ACENAPHTHYLENE	<337	ug/Kg	337		
ACENAPHTHENE	<337	ug/Kg	337		
2,4-DINITROTOLUENE	<337	ug/Kg	337		
2,6-DINITROTOLUENE	<337	ug/Kg	337		
DIETHYLPHTHALATE	<337	ug/Kg	337		
4-CHLOROPHENYL-PHENYLETHER	<337	ug/Kg	337		
FLUORENE	<337	ug/Kg	337		
N-NITROSODIPHENYLAMINE (1)	<337	ug/Kg	337		
4-BROMOPHENYL PHENYL ETHER	<337	ug/Kg	337		
HEXACHLOROBENZENE	<337	ug/Kg	337		
PHENANTHRENE	<337	ug/Kg	337		
ANTHRACENE	<337	ug/Kg	337		
DI-N-BUTYLPHTHALATE	<337	ug/Kg	337		
FLUORANTHENE	<337	ug/Kg	337		
PYRENE	<337	ug/Kg	337		
BUTYLBENZYLPHTHALATE	<337	ug/Kg	337		
3,3'-DICHLOROBENZIDINE	<337	ug/Kg	337		
BENZO(A)ANTHRACENE	<337	ug/Kg	337		
BIS(2-ETHYLHEXYL)PHTHALATE	<337	ug/Kg	337		
CHRYSENE	<337	ug/Kg	337		
DI-N-OCTYLPHTHALATE	<337	ug/Kg	337		
BENZO(B)FLUORANTHENE	<337	ug/Kg	337		
BENZO(K)FLUORANTHENE	<337	ug/Kg	337		
BENZO(A)PYRENE	<337	ug/Kg	337		
INDENO(1,2,3-CD)PYRENE	<337	ug/Kg	337		
DIBENZ(A,H)ANTHRACENE	<337	ug/Kg	337		
BENZO(G,H,I)PERYLENE	<337	ug/Kg	337		
SURROGATE NITROBENZENE-D5	62.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 694

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	55.0	% Recovery			
SURROGATE TERPHENYL-D14	52.0	% Recovery			
1-CHLOROANAPHTHALENE	<337	ug/Kg	337	02/14/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/14/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/14/94	
BENZIDINE	<1630	ug/Kg	1630	02/14/94	

SAMPLE ID- 0156HA10(000.0)QC
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 695
TIME SAMPLED- 1152
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/14/94	8270
PHENOL	<336.	ug/Kg	336.		
2-CHLOROPHENOL	<336.	ug/Kg	336.		
2-NITROPHENOL	<336.	ug/Kg	336.		
2,4-DIMETHYLPHENOL	<336.	ug/Kg	336.		
2,4-DICHLOROPHENOL	<336.	ug/Kg	336.		
4-CHLORO-3-METHYLPHENOL	<336.	ug/Kg	336.		
2,4,6-TRICHLOROPHENOL	<336.	ug/Kg	336.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<336.	ug/Kg	336.		
4-METHYLPHENOL	<336.	ug/Kg	336.		
2-METHYLPHENOL	<336.	ug/Kg	336.		
BENZYL ALCOHOL	<336.	ug/Kg	336.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<336.	ug/Kg	336.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<336.	ug/Kg	336.		
DIBENZOFURAN	<336.	ug/Kg	336.		
SURROGATE PHENOL-D5	78.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	78.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	75.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/14/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 695

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<336.	ug/Kg	336.		
1,3-DICHLOROBENZENE	<336.	ug/Kg	336.		
1,4-DICHLOROBENZENE	<336.	ug/Kg	336.		
1,2-DICHLOROBENZENE	<336.	ug/Kg	336.		
BIS(2-CHLOROISOPROPYL)ETHER	<336.	ug/Kg	336.		
N-NITROSO-DI-N-PROPYLAMINE	<336.	ug/Kg	336.		
HEXACHLOROETHANE	<336.	ug/Kg	336.		
NITROBENZENE	<336.	ug/Kg	336.		
ISOPHORONE	<336.	ug/Kg	336.		
BIS(2-CHLOROETHOXY)METHANE	<336.	ug/Kg	336.		
1,2,4-TRICHLOROBENZENE	<336.	ug/Kg	336.		
NAPHTHALENE	<336.	ug/Kg	336.		
HEXACHLOROBUTADIENE	<336.	ug/Kg	336.		
HEXACHLOROCYCLOPENTADIENE	<336.	ug/Kg	336.		
2-CHLORONAPHTHALENE	<336.	ug/Kg	336.		
DIMETHYLPHTHALATE	<336.	ug/Kg	336.		
ACENAPHTHYLENE	<336.	ug/Kg	336.		
ACENAPHTHENE	<336.	ug/Kg	336.		
2,4-DINITROTOLUENE	<336.	ug/Kg	336.		
2,6-DINITROTOLUENE	<336.	ug/Kg	336.		
DIETHYLPHTHALATE	<336.	ug/Kg	336.		
4-CHLOROPHENYL-PHENYLETHER	<336.	ug/Kg	336.		
FLUORENE	<336.	ug/Kg	336.		
N-NITROSODIPHENYLAMINE (1)	<336.	ug/Kg	336.		
4-BROMOPHENYL PHENYL ETHER	<336.	ug/Kg	336.		
HEXACHLOROBENZENE	<336.	ug/Kg	336.		
PHENANTHRENE	<336.	ug/Kg	336.		
ANTHRACENE	<336.	ug/Kg	336.		
DI-N-BUTYLPHTHALATE	<336.	ug/Kg	336.		
FLUORANTHENE	<336.	ug/Kg	336.		
PYRENE	<336.	ug/Kg	336.		
BUTYLBENZYLPHTHALATE	<336.	ug/Kg	336.		
3,3'-DICHLOROBENZIDINE	<336.	ug/Kg	336.		
BENZO(A)ANTHRACENE	<336.	ug/Kg	336.		
BIS(2-ETHYLHEXYL)PHTHALATE	<336.	ug/Kg	336.		
CHRYSENE	<336.	ug/Kg	336.		
DI-N-OCTYLPHTHALATE	<336.	ug/Kg	336.		
BENZO(B)FLUORANTHENE	<336.	ug/Kg	336.		
BENZO(K)FLUORANTHENE	<336.	ug/Kg	336.		
BENZO(A)PYRENE	<336.	ug/Kg	336.		
INDENO(1,2,3-CD)PYRENE	<336.	ug/Kg	336.		
DIBENZ(A,H)ANTHRACENE	<336.	ug/Kg	336.		
BENZO(G,H,I)PERYLENE	<336.	ug/Kg	336.		
SURROGATE NITROBENZENE-D5	69.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 695

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	61.0	% Recovery			
SURROGATE TERPHENYL-D14	62.0	% Recovery			
1-CHLOROANAPHTHALENE	<336.	ug/Kg	336.	02/14/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/14/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/14/94	
BENZIDINE	<1630	ug/Kg	1630	02/14/94	

SAMPLE ID- 0156HA10(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 696
TIME SAMPLED- 1156
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/14/94	8270
PHENOL	<341.	ug/Kg	341.		
2-CHLOROPHENOL	<341.	ug/Kg	341.		
2-NITROPHENOL	<341.	ug/Kg	341.		
2,4-DIMETHYLPHENOL	<341.	ug/Kg	341.		
2,4-DICHLOROPHENOL	<341.	ug/Kg	341.		
4-CHLORO-3-METHYLPHENOL	<341.	ug/Kg	341.		
2,4,6-TRICHLOROPHENOL	<341.	ug/Kg	341.		
2,4-DINITROPHENOL	<1650	ug/Kg	1650		
4-NITROPHENOL	<1650	ug/Kg	1650		
4,6-DINITRO-2-METHYLPHENOL	<1650	ug/Kg	1650		
PENTACHLOROPHENOL	<1650	ug/Kg	1650		
2,4,5-TRICHLOROPHENOL	<341.	ug/Kg	341.		
4-METHYLPHENOL	<341.	ug/Kg	341.		
2-METHYLPHENOL	<341.	ug/Kg	341.		
BENZYL ALCOHOL	<341.	ug/Kg	341.		
BENZOIC ACID	<1650	ug/Kg	1650		
2-METHYLNAPHTHALENE	<341.	ug/Kg	341.		
2-NITROANILINE	<1650	ug/Kg	1650		
3-NITROANILINE	<1650	ug/Kg	1650		
4-NITROANILINE	<1650	ug/Kg	1650		
4-CHLOROANILINE	<341.	ug/Kg	341.		
DIBENZOFURAN	<341.	ug/Kg	341.		
SURROGATE PHENOL-D5	62.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	64.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	54.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/14/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 696

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<341.	ug/Kg	341.		
1,3-DICHLOROBENZENE	<341.	ug/Kg	341.		
1,4-DICHLOROBENZENE	<341.	ug/Kg	341.		
1,2-DICHLOROBENZENE	<341.	ug/Kg	341.		
BIS(2-CHLOROISOPROPYL)ETHER	<341.	ug/Kg	341.		
N-NITROSO-DI-N-PROPYLAMINE	<341.	ug/Kg	341.		
HEXACHLOROETHANE	<341.	ug/Kg	341.		
NITROBENZENE	<341.	ug/Kg	341.		
ISOPHORONE	<341.	ug/Kg	341.		
BIS(2-CHLOROETHOXY)METHANE	<341.	ug/Kg	341.		
1,2,4-TRICHLOROBENZENE	<341.	ug/Kg	341.		
NAPHTHALENE	<341.	ug/Kg	341.		
HEXACHLOROBUTADIENE	<341.	ug/Kg	341.		
HEXACHLOROCYCLOPENTADIENE	<341.	ug/Kg	341.		
2-CHLORONAPHTHALENE	<341.	ug/Kg	341.		
DIMETHYLPHTHALATE	<341.	ug/Kg	341.		
ACENAPHTHYLENE	<341.	ug/Kg	341.		
ACENAPHTHENE	<341.	ug/Kg	341.		
2,4-DINITROTOLUENE	<341.	ug/Kg	341.		
2,6-DINITROTOLUENE	<341.	ug/Kg	341.		
DIETHYLPHTHALATE	<341.	ug/Kg	341.		
4-CHLOROPHENYL-PHENYLETHER	<341.	ug/Kg	341.		
FLUORENE	<341.	ug/Kg	341.		
N-NITROSODIPHENYLAMINE (1)	<341.	ug/Kg	341.		
4-BROMOPHENYL PHENYL ETHER	<341.	ug/Kg	341.		
HEXACHLOROBENZENE	<341.	ug/Kg	341.		
PHENANTHRENE	<341.	ug/Kg	341.		
ANTHRACENE	<341.	ug/Kg	341.		
DI-N-BUTYLPHTHALATE	<341.	ug/Kg	341.		
FLUORANTHENE	<341.	ug/Kg	341.		
PYRENE	<341.	ug/Kg	341.		
BUTYLBENZYLPHTHALATE	<341.	ug/Kg	341.		
3,3'-DICHLOROBENZIDINE	<341.	ug/Kg	341.		
BENZO(A)ANTHRACENE	<341.	ug/Kg	341.		
BIS(2-ETHYLHEXYL)PHTHALATE	<341.	ug/Kg	341.		
CHRYSENE	<341.	ug/Kg	341.		
DI-N-OCTYLPHTHALATE	<341.	ug/Kg	341.		
BENZO(B)FLUORANTHENE	<341.	ug/Kg	341.		
BENZO(K)FLUORANTHENE	<341.	ug/Kg	341.		
BENZO(A)PYRENE	<341.	ug/Kg	341.		
INDENO(1,2,3-CD)PYRENE	<341.	ug/Kg	341.		
DIBENZ(A,H)ANTHRACENE	<341.	ug/Kg	341.		
BENZO(G,H,I)PERYLENE	<341.	ug/Kg	341.		
SURROGATE NITROBENZENE-D5	49.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 696

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	45.0	% Recovery			
SURROGATE TERPHENYL-D14	44.0	% Recovery			
1-CHLOROANAPHTHALENE	<341.	ug/Kg	341.	02/14/94	
DIPHENYLAMINE	<1030	ug/Kg	1030	02/14/94	
1,2-DIPHENYLHYDRAZINE	<1650	ug/Kg	1650	02/14/94	
BENZIDINE	<1650	ug/Kg	1650	02/14/94	

SAMPLE ID- 0156HA10(004.0)

SAMPLE NUMBER- 697
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1206
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/15/94	8270
PHENOL	<342	ug/Kg	342		
2-CHLOROPHENOL	<342	ug/Kg	342		
2-NITROPHENOL	<342	ug/Kg	342		
2,4-DIMETHYLPHENOL	<342	ug/Kg	342		
2,4-DICHLOROPHENOL	<342	ug/Kg	342		
4-CHLORO-3-METHYLPHENOL	<342	ug/Kg	342		
2,4,6-TRICHLOROPHENOL	<342	ug/Kg	342		
2,4-DINITROPHENOL	<1660	ug/Kg	1660		
4-NITROPHENOL	<1660	ug/Kg	1660		
4,6-DINITRO-2-METHYLPHENOL	<1660	ug/Kg	1660		
PENTACHLOROPHENOL	<1660	ug/Kg	1660		
2,4,5-TRICHLOROPHENOL	<342	ug/Kg	342		
4-METHYLPHENOL	<342	ug/Kg	342		
2-METHYLPHENOL	<342	ug/Kg	342		
BENZYL ALCOHOL	<342	ug/Kg	342		
BENZOIC ACID	<1660	ug/Kg	1660		
2-METHYLNAPHTHALENE	<342	ug/Kg	342		
2-NITROANILINE	<1660	ug/Kg	1660		
3-NITROANILINE	<1660	ug/Kg	1660		
4-NITROANILINE	<1660	ug/Kg	1660		
4-CHLOROANILINE	<342	ug/Kg	342		
DIBENZOFURAN	<342	ug/Kg	342		
SURROGATE PHENOL-D5	56.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	55.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	67.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/15/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 697

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<342	ug/Kg	342		
1,3-DICHLOROBENZENE	<342	ug/Kg	342		
1,4-DICHLOROBENZENE	<342	ug/Kg	342		
1,2-DICHLOROBENZENE	<342	ug/Kg	342		
BIS(2-CHLOROISOPROPYL)ETHER	<342	ug/Kg	342		
N-NITROSO-DI-N-PROPYLAMINE	<342	ug/Kg	342		
HEXACHLOROETHANE	<342	ug/Kg	342		
NITROBENZENE	<342	ug/Kg	342		
ISOPHORONE	<342	ug/Kg	342		
BIS(2-CHLOROETHOXY)METHANE	<342	ug/Kg	342		
1,2,4-TRICHLOROBENZENE	<342	ug/Kg	342		
NAPHTHALENE	<342	ug/Kg	342		
HEXACHLOROBUTADIENE	<342	ug/Kg	342		
HEXACHLOROCYCLOPENTADIENE	<342	ug/Kg	342		
2-CHLORONAPHTHALENE	<342	ug/Kg	342		
DIMETHYLPHTHALATE	<342	ug/Kg	342		
ACENAPHTHYLENE	<342	ug/Kg	342		
ACENAPHTHENE	<342	ug/Kg	342		
2,4-DINITROTOLUENE	<342	ug/Kg	342		
2,6-DINITROTOLUENE	<342	ug/Kg	342		
DIETHYLPHTHALATE	<342	ug/Kg	342		
4-CHLOROPHENYL-PHENYLETHER	<342	ug/Kg	342		
FLUORENE	<342	ug/Kg	342		
N-NITROSODIPHENYLAMINE (1)	<342	ug/Kg	342		
4-BROMOPHENYL PHENYL ETHER	<342	ug/Kg	342		
HEXACHLOROBENZENE	<342	ug/Kg	342		
PHENANTHRENE	<342	ug/Kg	342		
ANTHRACENE	<342	ug/Kg	342		
DI-N-BUTYLPHTHALATE	<342	ug/Kg	342		
FLUORANTHENE	<342	ug/Kg	342		
PYRENE	<342	ug/Kg	342		
BUTYLBENZYLPHTHALATE	<342	ug/Kg	342		
3,3'-DICHLOROBENZIDINE	<342	ug/Kg	342		
BENZO(A)ANTHRACENE	<342	ug/Kg	342		
BIS(2-ETHYLHEXYL)PHTHALATE	<342	ug/Kg	342		
CHRYSENE	<342	ug/Kg	342		
DI-N-OCTYLPHTHALATE	<342	ug/Kg	342		
BENZO(B)FLUORANTHENE	<342	ug/Kg	342		
BENZO(K)FLUORANTHENE	<342	ug/Kg	342		
BENZO(A)PYRENE	<342	ug/Kg	342		
INDENO(1,2,3-CD)PYRENE	<342	ug/Kg	342		
DIBENZ(A,H)ANTHRACENE	<342	ug/Kg	342		
BENZO(G,H,I)PERYLENE	<342	ug/Kg	342		
SURROGATE NITROBENZENE-D5	47.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 697

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	43.0	% Recovery			
SURROGATE TERPHENYL-D14	45.0	% Recovery			
1-CHLOROANAPHTHALENE	<342	ug/Kg	342	02/15/94	
DIPHENYLAMINE	<1040	ug/Kg	1040	02/15/94	
1,2-DIPHENYLHYDRAZINE	<1660	ug/Kg	1660	02/15/94	
BENZIDINE	<1660	ug/Kg	1660	02/15/94	

SAMPLE ID- 0156HA01(000.0)
SAMPLE NUMBER- 698
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1000
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/15/94	8270
PHENOL	<344.	ug/Kg	344.		
2-CHLOROPHENOL	<344.	ug/Kg	344.		
2-NITROPHENOL	<344.	ug/Kg	344.		
2,4-DIMETHYLPHENOL	<344.	ug/Kg	344.		
2,4-DICHLOROPHENOL	<344.	ug/Kg	344.		
4-CHLORO-3-METHYLPHENOL	<344.	ug/Kg	344.		
2,4,6-TRICHLOROPHENOL	<344.	ug/Kg	344.		
2,4-DINITROPHENOL	<1670	ug/Kg	1670		
4-NITROPHENOL	<1670	ug/Kg	1670		
4,6-DINITRO-2-METHYLPHENOL	<1670	ug/Kg	1670		
PENTACHLOROPHENOL	<1670	ug/Kg	1670		
2,4,5-TRICHLOROPHENOL	<344.	ug/Kg	344.		
4-METHYLPHENOL	<344.	ug/Kg	344.		
2-METHYLPHENOL	<344.	ug/Kg	344.		
BENZYL ALCOHOL	<344.	ug/Kg	344.		
BENZOIC ACID	<1670	ug/Kg	1670		
2-METHYLNAPHTHALENE	<344.	ug/Kg	344.		
2-NITROANILINE	<1670	ug/Kg	1670		
3-NITROANILINE	<1670	ug/Kg	1670		
4-NITROANILINE	<1670	ug/Kg	1670		
4-CHLOROANILINE	<344.	ug/Kg	344.		
DIBENZOFURAN	<344.	ug/Kg	344.		
SURROGATE PHENOL-D5	54.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	54.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	52.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/15/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 698

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<344.	ug/Kg	344.		
1,3-DICHLOROBENZENE	<344.	ug/Kg	344.		
1,4-DICHLOROBENZENE	<344.	ug/Kg	344.		
1,2-DICHLOROBENZENE	<344.	ug/Kg	344.		
BIS(2-CHLOROISOPROPYL)ETHER	<344.	ug/Kg	344.		
N-NITROSO-DI-N-PROPYLAMINE	<344.	ug/Kg	344.		
HEXACHLOROETHANE	<344.	ug/Kg	344.		
NITROBENZENE	<344.	ug/Kg	344.		
ISOPHORONE	<344.	ug/Kg	344.		
BIS(2-CHLOROETHOXY)METHANE	<344.	ug/Kg	344.		
1,2,4-TRICHLOROBENZENE	<344.	ug/Kg	344.		
NAPHTHALENE	<344.	ug/Kg	344.		
HEXACHLOROBUTADIENE	<344.	ug/Kg	344.		
HEXACHLOROCYCLOPENTADIENE	<344.	ug/Kg	344.		
2-CHLORONAPHTHALENE	<344.	ug/Kg	344.		
DIMETHYLPHTHALATE	<344.	ug/Kg	344.		
ACENAPHTHYLENE	<344.	ug/Kg	344.		
ACENAPHTHENE	<344.	ug/Kg	344.		
2,4-DINITROTOLUENE	<344.	ug/Kg	344.		
2,6-DINITROTOLUENE	<344.	ug/Kg	344.		
DIETHYLPHTHALATE	<344.	ug/Kg	344.		
4-CHLOROPHENYL-PHENYLETHER	<344.	ug/Kg	344.		
FLUORENE	<344.	ug/Kg	344.		
N-NITROSODIPHENYLAMINE (1)	<344.	ug/Kg	344.		
4-BROMOPHENYL PHENYL ETHER	<344.	ug/Kg	344.		
HEXACHLOROBENZENE	<344.	ug/Kg	344.		
PHENANTHRENE	<344.	ug/Kg	344.		
ANTHRACENE	<344.	ug/Kg	344.		
DI-N-BUTYLPHTHALATE	<344.	ug/Kg	344.		
FLUORANTHENE	<344.	ug/Kg	344.		
PYRENE	<344.	ug/Kg	344.		
BUTYLBENZYLPHTHALATE	<344.	ug/Kg	344.		
3,3'-DICHLOROBENZIDINE	<344.	ug/Kg	344.		
BENZO(A)ANTHRACENE	<344.	ug/Kg	344.		
BIS(2-ETHYLHEXYL)PHTHALATE	<344.	ug/Kg	344.		
CHRYSENE	<344.	ug/Kg	344.		
DI-N-OCTYLPHTHALATE	<344.	ug/Kg	344.		
BENZO(B)FLUORANTHENE	<344.	ug/Kg	344.		
BENZO(K)FLUORANTHENE	<344.	ug/Kg	344.		
BENZO(A)PYRENE	<344.	ug/Kg	344.		
INDENO(1,2,3-CD)PYRENE	<344.	ug/Kg	344.		
DIBENZ(A,H)ANTHRACENE	<344.	ug/Kg	344.		
BENZO(G,H,I)PERYLENE	<344.	ug/Kg	344.		
SURROGATE NITROBENZENE-D5	47.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 698

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	41.0	% Recovery			
SURROGATE TERPHENYL-D14	43.0	% Recovery			
1-CHLOROANAPHTHALENE	<344.	ug/Kg	344.	02/15/94	
DIPHENYLAMINE	<1040	ug/Kg	1040	02/15/94	
1,2-DIPHENYLHYDRAZINE	<1670	ug/Kg	1670	02/15/94	
BENZIDINE	<1670	ug/Kg	1670	02/15/94	

SAMPLE ID- 0156HA01(002.0)

SAMPLE NUMBER- 699
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1011
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/11/94	8270
PHENOL	<338.	ug/Kg	338.		
2-CHLOROPHENOL	<338.	ug/Kg	338.		
2-NITROPHENOL	<338.	ug/Kg	338.		
2,4-DIMETHYLPHENOL	<338.	ug/Kg	338.		
2,4-DICHLOROPHENOL	<338.	ug/Kg	338.		
4-CHLORO-3-METHYLPHENOL	<338.	ug/Kg	338.		
2,4,6-TRICHLOROPHENOL	<338.	ug/Kg	338.		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	<1640	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	<1640	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<338.	ug/Kg	338.		
4-METHYLPHENOL	<338.	ug/Kg	338.		
2-METHYLPHENOL	<338.	ug/Kg	338.		
BENZYL ALCOHOL	<338.	ug/Kg	338.		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<338.	ug/Kg	338.		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<338.	ug/Kg	338.		
DIBENZOFURAN	<338.	ug/Kg	338.		
SURROGATE PHENOL-D5	55.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	56.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	52.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/11/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 699

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<338.	ug/Kg	338.		
1,3-DICHLOROBENZENE	<338.	ug/Kg	338.		
1,4-DICHLOROBENZENE	<338.	ug/Kg	338.		
1,2-DICHLOROBENZENE	<338.	ug/Kg	338.		
BIS(2-CHLOROISOPROPYL)ETHER	<338.	ug/Kg	338.		
N-NITROSO-DI-N-PROPYLAMINE	<338.	ug/Kg	338.		
HEXACHLOROETHANE	<338.	ug/Kg	338.		
NITROBENZENE	<338.	ug/Kg	338.		
ISOPHORONE	<338.	ug/Kg	338.		
BIS(2-CHLOROETHOXY)METHANE	<338.	ug/Kg	338.		
1,2,4-TRICHLOROBENZENE	<338.	ug/Kg	338.		
NAPHTHALENE	<338.	ug/Kg	338.		
HEXACHLOROBUTADIENE	<338.	ug/Kg	338.		
HEXACHLOROCYCLOPENTADIENE	<338.	ug/Kg	338.		
2-CHLORONAPHTHALENE	<338.	ug/Kg	338.		
DIMETHYLPHTHALATE	<338.	ug/Kg	338.		
ACENAPHTHYLENE	<338.	ug/Kg	338.		
ACENAPHTHENE	<338.	ug/Kg	338.		
2,4-DINITROTOLUENE	<338.	ug/Kg	338.		
2,6-DINITROTOLUENE	<338.	ug/Kg	338.		
DIETHYLPHTHALATE	<338.	ug/Kg	338.		
4-CHLOROPHENYL-PHENYLETHER	<338.	ug/Kg	338.		
FLUORENE	<338.	ug/Kg	338.		
N-NITROSODIPHENYLAMINE (1)	<338.	ug/Kg	338.		
4-BROMOPHENYL PHENYL ETHER	<338.	ug/Kg	338.		
HEXACHLOROBENZENE	<338.	ug/Kg	338.		
PHENANTHRENE	<338.	ug/Kg	338.		
ANTHRACENE	<338.	ug/Kg	338.		
DI-N-BUTYLPHTHALATE	<338.	ug/Kg	338.		
FLUORANTHENE	<338.	ug/Kg	338.		
PYRENE	<338.	ug/Kg	338.		
BUTYLBENZYLPHTHALATE	<338.	ug/Kg	338.		
3,3'-DICHLOROBENZIDINE	<338.	ug/Kg	338.		
BENZO(A)ANTHRACENE	<338.	ug/Kg	338.		
BIS(2-ETHYLHEXYL)PHTHALATE	<338.	ug/Kg	338.		
CHRYSENE	<338.	ug/Kg	338.		
DI-N-OCTYLPHTHALATE	<338.	ug/Kg	338.		
BENZO(B)FLUORANTHENE	<338.	ug/Kg	338.		
BENZO(K)FLUORANTHENE	<338.	ug/Kg	338.		
BENZO(A)PYRENE	<338.	ug/Kg	338.		
INDENO(1,2,3-CD)PYRENE	<338.	ug/Kg	338.		
DIBENZ(A,H)ANTHRACENE	<338.	ug/Kg	338.		
BENZO(G,H,I)PERYLENE	<338.	ug/Kg	338.		
SURROGATE NITROBENZENE-D5	41.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 699

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	44.0	% Recovery			
SURROGATE TERPHENYL-D14	48.0	% Recovery			
1-CHLOROANAPHTHALENE	<338.	ug/Kg	338.	02/11/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/11/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/11/94	
BENZIDINE	<1640	ug/Kg	1640	02/11/94	

SAMPLE ID- 0156HA05(000.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 700
TIME SAMPLED- 1347
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/19/94	8270
PHENOL	<337.	ug/Kg	337.		
2-CHLOROPHENOL	<337.	ug/Kg	337.		
2-NITROPHENOL	<337.	ug/Kg	337.		
2,4-DIMETHYLPHENOL	<337.	ug/Kg	337.		
2,4-DICHLOROPHENOL	<337.	ug/Kg	337.		
4-CHLORO-3-METHYLPHENOL	<337.	ug/Kg	337.		
2,4,6-TRICHLOROPHENOL	<337.	ug/Kg	337.		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<337.	ug/Kg	337.		
4-METHYLPHENOL	<337.	ug/Kg	337.		
2-METHYLPHENOL	<337.	ug/Kg	337.		
BENZYL ALCOHOL	<337.	ug/Kg	337.		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<337.	ug/Kg	337.		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<337.	ug/Kg	337.		
DIBENZOFURAN	<337.	ug/Kg	337.		
SURROGATE PHENOL-D5	40.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	43.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	34.0	% Recovery			

BASE/NEUTRAL COMPOUNDS 02/19/94 8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 700

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337.	ug/Kg	337.		
1,3-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,4-DICHLOROBENZENE	<337.	ug/Kg	337.		
1,2-DICHLOROBENZENE	<337.	ug/Kg	337.		
BIS(2-CHLOROISOPROPYL)ETHER	<337.	ug/Kg	337.		
N-NITROSO-DI-N-PROPYLAMINE	<337.	ug/Kg	337.		
HEXACHLOROETHANE	<337.	ug/Kg	337.		
NITROBENZENE	<337.	ug/Kg	337.		
ISOPHORONE	<337.	ug/Kg	337.		
BIS(2-CHLOROETHOXY)METHANE	<337.	ug/Kg	337.		
1,2,4-TRICHLOROBENZENE	<337.	ug/Kg	337.		
NAPHTHALENE	<337.	ug/Kg	337.		
HEXACHLOROBUTADIENE	<337.	ug/Kg	337.		
HEXACHLOROCYCLOPENTADIENE	<337.	ug/Kg	337.		
2-CHLORONAPHTHALENE	<337.	ug/Kg	337.		
DIMETHYLPHTHALATE	<337.	ug/Kg	337.		
ACENAPHTHYLENE	<337.	ug/Kg	337.		
ACENAPHTHENE	<337.	ug/Kg	337.		
2,4-DINITROTOLUENE	<337.	ug/Kg	337.		
2,6-DINITROTOLUENE	<337.	ug/Kg	337.		
DIETHYLPHTHALATE	<337.	ug/Kg	337.		
4-CHLOROPHENYL-PHENYLETHER	<337.	ug/Kg	337.		
FLUORENE	<337.	ug/Kg	337.		
N-NITROSODIPHENYLAMINE (1)	<337.	ug/Kg	337.		
4-BROMOPHENYL PHENYL ETHER	<337.	ug/Kg	337.		
HEXACHLOROBENZENE	<337.	ug/Kg	337.		
PHENANTHRENE	<337.	ug/Kg	337.		
ANTHRACENE	<337.	ug/Kg	337.		
DI-N-BUTYLPHTHALATE	<337.	ug/Kg	337.		
FLUORANTHENE	<337.	ug/Kg	337.		
PYRENE	<337.	ug/Kg	337.		
BUTYLBENZYLPHTHALATE	<337.	ug/Kg	337.		
3,3'-DICHLOROBENZIDINE	<337.	ug/Kg	337.		
BENZO(A)ANTHRACENE	<337.	ug/Kg	337.		
BIS(2-ETHYLHEXYL)PHTHALATE	<337.	ug/Kg	337.		
CHRYSENE	<337.	ug/Kg	337.		
DI-N-OCTYLPHTHALATE	<337.	ug/Kg	337.		
BENZO(B)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(K)FLUORANTHENE	<337.	ug/Kg	337.		
BENZO(A)PYRENE	<337.	ug/Kg	337.		
INDENO(1,2,3-CD)PYRENE	<337.	ug/Kg	337.		
DIBENZ(A,H)ANTHRACENE	<337.	ug/Kg	337.		
BENZO(G,H,I)PERYLENE	<337.	ug/Kg	337.		
SURROGATE NITROBENZENE-D5	31.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 700

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	36.0	% Recovery			
SURROGATE TERPHENYL-D14	45.0	% Recovery			
1-CHLOROANAPHTHALENE	<337.	ug/Kg	337.	02/19/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/19/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/19/94	
BENZIDINE	<1630	ug/Kg	1630	02/19/94	

SAMPLE ID- 0156HA05(002.0)
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 701
TIME SAMPLED- 1359
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/19/94	8270
PHENOL	<338.	ug/Kg	338.		
2-CHLOROPHENOL	<338.	ug/Kg	338.		
2-NITROPHENOL	<338.	ug/Kg	338.		
2,4-DIMETHYLPHENOL	<338.	ug/Kg	338.		
2,4-DICHLOROPHENOL	<338.	ug/Kg	338.		
4-CHLORO-3-METHYLPHENOL	<338.	ug/Kg	338.		
2,4,6-TRICHLOROPHENOL	<338.	ug/Kg	338.		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	<1640	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	<1640	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<338.	ug/Kg	338.		
4-METHYLPHENOL	<338.	ug/Kg	338.		
2-METHYLPHENOL	<338.	ug/Kg	338.		
BENZYL ALCOHOL	<338.	ug/Kg	338.		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<338.	ug/Kg	338.		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<338.	ug/Kg	338.		
DIBENZOFURAN	<338.	ug/Kg	338.		
SURROGATE PHENOL-D5	59.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	61.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	48.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/19/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 701

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<338.	ug/Kg	338.		
1,3-DICHLOROBENZENE	<338.	ug/Kg	338.		
1,4-DICHLOROBENZENE	<338.	ug/Kg	338.		
1,2-DICHLOROBENZENE	<338.	ug/Kg	338.		
BIS(2-CHLOROISOPROPYL)ETHER	<338.	ug/Kg	338.		
N-NITROSO-DI-N-PROPYLAMINE	<338.	ug/Kg	338.		
HEXACHLOROETHANE	<338.	ug/Kg	338.		
NITROBENZENE	<338.	ug/Kg	338.		
ISOPHORONE	<338.	ug/Kg	338.		
BIS(2-CHLOROETHOXY)METHANE	<338.	ug/Kg	338.		
1,2,4-TRICHLOROBENZENE	<338.	ug/Kg	338.		
NAPHTHALENE	<338.	ug/Kg	338.		
HEXACHLOROBUTADIENE	<338.	ug/Kg	338.		
HEXACHLOROCYCLOPENTADIENE	<338.	ug/Kg	338.		
2-CHLORONAPHTHALENE	<338.	ug/Kg	338.		
DIMETHYLPHTHALATE	<338.	ug/Kg	338.		
ACENAPHTHYLENE	<338.	ug/Kg	338.		
ACENAPHTHENE	<338.	ug/Kg	338.		
2,4-DINITROTOLUENE	<338.	ug/Kg	338.		
2,6-DINITROTOLUENE	<338.	ug/Kg	338.		
DIETHYLPHTHALATE	<338.	ug/Kg	338.		
4-CHLOROPHENYL-PHENYLETHER	<338.	ug/Kg	338.		
FLUORENE	<338.	ug/Kg	338.		
N-NITROSODIPHENYLAMINE (1)	<338.	ug/Kg	338.		
4-BROMOPHENYL PHENYL ETHER	<338.	ug/Kg	338.		
HEXACHLOROBENZENE	<338.	ug/Kg	338.		
PHENANTHRENE	<338.	ug/Kg	338.		
ANTHRACENE	<338.	ug/Kg	338.		
DI-N-BUTYLPHTHALATE	<338.	ug/Kg	338.		
FLUORANTHENE	<338.	ug/Kg	338.		
PYRENE	<338.	ug/Kg	338.		
BUTYLBENZYLPHTHALATE	<338.	ug/Kg	338.		
3,3'-DICHLOROBENZIDINE	<338.	ug/Kg	338.		
BENZO(A)ANTHRACENE	<338.	ug/Kg	338.		
BIS(2-ETHYLHEXYL)PHTHALATE	<338.	ug/Kg	338.		
CHRYSENE	<338.	ug/Kg	338.		
DI-N-OCTYLPHTHALATE	<338.	ug/Kg	338.		
BENZO(B)FLUORANTHENE	<338.	ug/Kg	338.		
BENZO(K)FLUORANTHENE	<338.	ug/Kg	338.		
BENZO(A)PYRENE	<338.	ug/Kg	338.		
INDENO(1,2,3-CD)PYRENE	<338.	ug/Kg	338.		
DIBENZ(A,H)ANTHRACENE	<338.	ug/Kg	338.		
BENZO(G,H,I)PERYLENE	<338.	ug/Kg	338.		
SURROGATE NITROBENZENE-D5	48.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 701

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	52.0	% Recovery			
SURROGATE TERPHENYL-D14	58.0	% Recovery			
1-CHLOROANAPHTHALENE	<338.	ug/Kg	338.	02/19/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/19/94	
1,2-DIPHENYLHYDRAZINE	<1640	ug/Kg	1640	02/19/94	
BENZIDINE	<1640	ug/Kg	1640	02/19/94	

SAMPLE ID- 0156HA05(002.0)QC
TIME RECEIVED- 0915
DATE SAMPLED- 01/10/94
DELIVERED BY- FED. EXP.
SAMPLE NUMBER- 702
TIME SAMPLED- 1359
RECEIVED BY- DH
SAMPLE MATRIX- SOIL
DATE RECEIVED- 01/12/94
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/19/94	8270
PHENOL	<340	ug/Kg	340		
2-CHLOROPHENOL	<340	ug/Kg	340		
2-NITROPHENOL	<340	ug/Kg	340		
2,4-DIMETHYLPHENOL	<340	ug/Kg	340		
2,4-DICHLOROPHENOL	<340	ug/Kg	340		
4-CHLORO-3-METHYLPHENOL	<340	ug/Kg	340		
2,4,6-TRICHLOROPHENOL	<340	ug/Kg	340		
2,4-DINITROPHENOL	<1650	ug/Kg	1650		
4-NITROPHENOL	<1650	ug/Kg	1650		
4,6-DINITRO-2-METHYLPHENOL	<1650	ug/Kg	1650		
PENTACHLOROPHENOL	<1650	ug/Kg	1650		
2,4,5-TRICHLOROPHENOL	<340	ug/Kg	340		
4-METHYLPHENOL	<340	ug/Kg	340		
2-METHYLPHENOL	<340	ug/Kg	340		
BENZYL ALCOHOL	<340	ug/Kg	340		
BENZOIC ACID	<1650	ug/Kg	1650		
2-METHYLNAPHTHALENE	<340	ug/Kg	340		
2-NITROANILINE	<1650	ug/Kg	1650		
3-NITROANILINE	<1650	ug/Kg	1650		
4-NITROANILINE	<1650	ug/Kg	1650		
4-CHLOROANILINE	<340	ug/Kg	340		
DIBENZOFURAN	<340	ug/Kg	340		
SURROGATE PHENOL-D5	55.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	60.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	52.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/19/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<340	ug/Kg	340		
1,3-DICHLOROBENZENE	<340	ug/Kg	340		
1,4-DICHLOROBENZENE	<340	ug/Kg	340		
1,2-DICHLOROBENZENE	<340	ug/Kg	340		
BIS(2-CHLOROISOPROPYL)ETHER	<340	ug/Kg	340		
N-NITROSO-DI-N-PROPYLAMINE	<340	ug/Kg	340		
HEXACHLOROETHANE	<340	ug/Kg	340		
NITROBENZENE	<340	ug/Kg	340		
ISOPHORONE	<340	ug/Kg	340		
BIS(2-CHLOROETHOXY)METHANE	<340	ug/Kg	340		
1,2,4-TRICHLOROBENZENE	<340	ug/Kg	340		
NAPHTHALENE	<340	ug/Kg	340		
HEXACHLOROBUTADIENE	<340	ug/Kg	340		
HEXACHLOROCYCLOPENTADIENE	<340	ug/Kg	340		
2-CHLORONAPHTHALENE	<340	ug/Kg	340		
DIMETHYLPHTHALATE	<340	ug/Kg	340		
ACENAPHTHYLENE	<340	ug/Kg	340		
ACENAPHTHENE	<340	ug/Kg	340		
2,4-DINITROTOLUENE	<340	ug/Kg	340		
2,6-DINITROTOLUENE	<340	ug/Kg	340		
DIETHYLPHTHALATE	<340	ug/Kg	340		
4-CHLOROPHENYL-PHENYLETHER	<340	ug/Kg	340		
FLUORENE	<340	ug/Kg	340		
N-NITROSODIPHENYLAMINE (1)	<340	ug/Kg	340		
4-BROMOPHENYL PHENYL ETHER	<340	ug/Kg	340		
HEXACHLOROBENZENE	<340	ug/Kg	340		
PHENANTHRENE	<340	ug/Kg	340		
ANTHRACENE	<340	ug/Kg	340		
DI-N-BUTYLPHTHALATE	<340	ug/Kg	340		
FLUORANTHENE	<340	ug/Kg	340		
PYRENE	<340	ug/Kg	340		
BUTYLBENZYLPHTHALATE	<340	ug/Kg	340		
3,3'-DICHLOROBENZIDINE	<340	ug/Kg	340		
BENZO(A)ANTHRACENE	<340	ug/Kg	340		
BIS(2-ETHYLHEXYL)PHTHALATE	<340	ug/Kg	340		
CHRYSENE	<340	ug/Kg	340		
DI-N-OCTYLPHTHALATE	<340	ug/Kg	340		
BENZO(B)FLUORANTHENE	<340	ug/Kg	340		
BENZO(K)FLUORANTHENE	<340	ug/Kg	340		
BENZO(A)PYRENE	<340	ug/Kg	340		
INDENO(1,2,3-CD)PYRENE	<340	ug/Kg	340		
DIBENZ(A,H)ANTHRACENE	<340	ug/Kg	340		
BENZO(G,H,I)PERYLENE	<340	ug/Kg	340		
SURROGATE NITROBENZENE-D5	41.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 702

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	48.0	% Recovery			
SURROGATE TERPHENYL-D14	60.0	% Recovery			
1-CHLOROANAPHTHALENE	<340	ug/Kg	340	02/19/94	
DIPHENYLAMINE	<1030	ug/Kg	1030	02/19/94	
1,2-DIPHENYLHYDRAZINE	<1650	ug/Kg	1650	02/19/94	
BENZIDINE	<1650	ug/Kg	1650	02/19/94	

SAMPLE ID- 0156HA05(003.0)

SAMPLE NUMBER- 703
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1410
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/19/94	8270
PHENOL	<337	ug/Kg	337		
2-CHLOROPHENOL	<337	ug/Kg	337		
2-NITROPHENOL	<337	ug/Kg	337		
2,4-DIMETHYLPHENOL	<337	ug/Kg	337		
2,4-DICHLOROPHENOL	<337	ug/Kg	337		
4-CHLORO-3-METHYLPHENOL	<337	ug/Kg	337		
2,4,6-TRICHLOROPHENOL	<337	ug/Kg	337		
2,4-DINITROPHENOL	<1630	ug/Kg	1630		
4-NITROPHENOL	<1630	ug/Kg	1630		
4,6-DINITRO-2-METHYLPHENOL	<1630	ug/Kg	1630		
PENTACHLOROPHENOL	<1630	ug/Kg	1630		
2,4,5-TRICHLOROPHENOL	<337	ug/Kg	337		
4-METHYLPHENOL	<337	ug/Kg	337		
2-METHYLPHENOL	<337	ug/Kg	337		
BENZYL ALCOHOL	<337	ug/Kg	337		
BENZOIC ACID	<1630	ug/Kg	1630		
2-METHYLNAPHTHALENE	<337	ug/Kg	337		
2-NITROANILINE	<1630	ug/Kg	1630		
3-NITROANILINE	<1630	ug/Kg	1630		
4-NITROANILINE	<1630	ug/Kg	1630		
4-CHLOROANILINE	<337	ug/Kg	337		
DIBENZOFURAN	<337	ug/Kg	337		
SURROGATE PHENOL-D5	61.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	64.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	53.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/19/94	8270

CONTINUATION OF DATA FOR SAMPLE NUMBER 703

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
BIS(2-CHLOROETHYL) ETHER	<337	ug/Kg	337		
1,3-DICHLOROBENZENE	<337	ug/Kg	337		
1,4-DICHLOROBENZENE	<337	ug/Kg	337		
1,2-DICHLOROBENZENE	<337	ug/Kg	337		
BIS(2-CHLOROISOPROPYL)ETHER	<337	ug/Kg	337		
N-NITROSO-DI-N-PROPYLAMINE	<337	ug/Kg	337		
HEXACHLOROETHANE	<337	ug/Kg	337		
NITROBENZENE	<337	ug/Kg	337		
ISOPHORONE	<337	ug/Kg	337		
BIS(2-CHLOROETHOXY)METHANE	<337	ug/Kg	337		
1,2,4-TRICHLOROBENZENE	<337	ug/Kg	337		
NAPHTHALENE	<337	ug/Kg	337		
HEXACHLOROBUTADIENE	<337	ug/Kg	337		
HEXACHLOROCYCLOPENTADIENE	<337	ug/Kg	337		
2-CHLORONAPHTHALENE	<337	ug/Kg	337		
DIMETHYLPHTHALATE	<337	ug/Kg	337		
ACENAPHTHYLENE	<337	ug/Kg	337		
ACENAPHTHENE	<337	ug/Kg	337		
2,4-DINITROTOLUENE	<337	ug/Kg	337		
2,6-DINITROTOLUENE	<337	ug/Kg	337		
DIETHYLPHTHALATE	<337	ug/Kg	337		
4-CHLOROPHENYL-PHENYLETHER	<337	ug/Kg	337		
FLUORENE	<337	ug/Kg	337		
N-NITROSODIPHENYLAMINE (1)	<337	ug/Kg	337		
4-BROMOPHENYL PHENYL ETHER	<337	ug/Kg	337		
HEXACHLOROBENZENE	<337	ug/Kg	337		
PHENANTHRENE	<337	ug/Kg	337		
ANTHRACENE	<337	ug/Kg	337		
DI-N-BUTYLPHTHALATE	<337	ug/Kg	337		
FLUORANTHENE	<337	ug/Kg	337		
PYRENE	<337	ug/Kg	337		
BUTYLBENZYLPHTHALATE	<337	ug/Kg	337		
3,3'-DICHLOROBENZIDINE	<337	ug/Kg	337		
BENZO(A)ANTHRACENE	<337	ug/Kg	337		
BIS(2-ETHYLHEXYL)PHTHALATE	<337	ug/Kg	337		
CHRYSENE	<337	ug/Kg	337		
DI-N-OCTYLPHTHALATE	<337	ug/Kg	337		
BENZO(B)FLUORANTHENE	<337	ug/Kg	337		
BENZO(K)FLUORANTHENE	<337	ug/Kg	337		
BENZO(A)PYRENE	<337	ug/Kg	337		
INDENO(1,2,3-CD)PYRENE	<337	ug/Kg	337		
DIBENZ(A,H)ANTHRACENE	<337	ug/Kg	337		
BENZO(G,H,I)PERYLENE	<337	ug/Kg	337		
SURROGATE NITROBENZENE-D5	48.0	% Recovery			

CONTINUATION OF DATA FOR SAMPLE NUMBER 703

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
SURROGATE 2-FLUOROBIPHENYL	48.0	% Recovery			
SURROGATE TERPHENYL-D14	65.0	% Recovery			
1-CHLOROANAPHTHALENE	<337	ug/Kg	337	02/19/94	
DIPHENYLAMINE	<1020	ug/Kg	1020	02/19/94	
1,2-DIPHENYLHYDRAZINE	<1630	ug/Kg	1630	02/19/94	
BENZIDINE	<1630	ug/Kg	1630	02/19/94	

SAMPLE ID- 0156HA06(000.0)
SAMPLE NUMBER- 704
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/10/94
TIME SAMPLED- 1349
DATE RECEIVED- 01/12/94

TIME RECEIVED- 0915
DELIVERED BY- FED. EXP.
RECEIVED BY- DH
SAMPLER- CLIENT

ANALYSIS	RESULT	UNITS	DET. LIMIT	ANALYSIS DATE	METHOD
ACID COMPOUNDS				02/21/94	8270
PHENOL	<338	ug/Kg	338		
2-CHLOROPHENOL	<338	ug/Kg	338		
2-NITROPHENOL	<338	ug/Kg	338		
2,4-DIMETHYLPHENOL	<338	ug/Kg	338		
2,4-DICHLOROPHENOL	<338	ug/Kg	338		
4-CHLORO-3-METHYLPHENOL	<338	ug/Kg	338		
2,4,6-TRICHLOROPHENOL	<338	ug/Kg	338		
2,4-DINITROPHENOL	<1640	ug/Kg	1640		
4-NITROPHENOL	<1640	ug/Kg	1640		
4,6-DINITRO-2-METHYLPHENOL	<1640	ug/Kg	1640		
PENTACHLOROPHENOL	<1640	ug/Kg	1640		
2,4,5-TRICHLOROPHENOL	<338	ug/Kg	338		
4-METHYLPHENOL	<338	ug/Kg	338		
2-METHYLPHENOL	<338	ug/Kg	338		
BENZYL ALCOHOL	<338	ug/Kg	338		
BENZOIC ACID	<1640	ug/Kg	1640		
2-METHYLNAPHTHALENE	<338	ug/Kg	338		
2-NITROANILINE	<1640	ug/Kg	1640		
3-NITROANILINE	<1640	ug/Kg	1640		
4-NITROANILINE	<1640	ug/Kg	1640		
4-CHLOROANILINE	<338	ug/Kg	338		
DIBENZOFURAN	<338	ug/Kg	338		
SURROGATE PHENOL-D5	47.0	% Recovery			
SURROGATE 2-FLUOROPHENOL	56.0	% Recovery			
SURROGATE 2,4,6-TRIBROMOPHENOL	57.0	% Recovery			
BASE/NEUTRAL COMPOUNDS				02/21/94	8270

VOCs

QUALITY CONTROL REPORT FOR SVERDRUP ENVIRONMENTAL SERVICES
WHITE SANDS PROJECT 85-6

Identification	Carr Sample Number
0146MW19(WATER)	718
0000TB07(WATER)	719
0146MW24(WATER)	720
0146MW22(WATER)	721
0146MW23(WATER)	722
0146MW23(WATER)QC	723
0146MW05(WATER)	724
0146MW06(WATER)	725
0146SW01(WATER)	726
0146SW01(WATER)MS	727
0146SW01(WATER)MSD	728
0000TB05(WATER)	729
0146SW01(WATER)	730
0146SW01(WATER)MS	731
0146SW01(WATER)MSD	732
2730MW14(WATER)	733
0065MW08(WATER)	734
0000TB10(WATER)	735
0065MW07(WATER)	736
0145MW09(WATER)	737
0145MW10(WATER)	738
0000TB13(WATER)	739
0146MW21(WATER)	740
0145MW45(WATER)	741
0146MW20(WATER)	742
0065MW05(WATER)	743
0146MW20(WATER)	744
0146MW21(WATER)	745
0145MW45(WATER)	746
0000TB12(WATER)	747
0143MW17(WATER)	748
0144MW07(WATER)	749
0144MW07(WATER)QC	750
0143MW39(WATER)	751
0143MW39(WATER)QC	752
0144MW18B(WATER)	753
0144MW18B(WATER)EB	754
0000TB15(WATER)	755
0144MW26(WATER)	756
0065MW04(WATER)	757
0065MW04(WATER)QC	758
0143MW39(WATER)	759
0143MW39(WATER)QC	760
0000TB16(WATER)	761
0144MW18B(WATER)	762
0144MW18B(WATER)EB	763

Identification	Carr Sample Number
0144MW26(WATER)	764
0064MW02(WATER)	765
0064MW01(WATER)	766
0000TB20(WATER)	767
3839MW34(WATER)	768
0063MW11(WATER)	769
0000TB22(WATER)	770
0063MW06(WATER)	771
3839MW33(WATER)	772
0000TB18(WATER)	773
0065MW05(WATER)RS	774
0089TW03(WATER)	775
0144MW07(WATER)RS	776
0144MW07(WTR)RSQC	777
0145MW09(WATER)RS	778
0144MW18(WATER)RS	779
0146MW20(WATER)RS	780
0145MW45(WATER)RS	781
0000TB23(WATER)	782
0143MW10(WATER)RS	783
0146MW21(WATER)RS	784
3839MW30(WATER)	785
0000TB21(WATER)	786
0089TW02(WATER)	787
0089TW02(WATER)MS	788
0089TW02(WATER)MSD	789
0063MW12(WATER)	790
0063MW12(WATER)QC	791
0063MW03(WATER)	792
0000TB19(WATER)	793
0144MW28(WATER)	794
0144MW26(WATER)RS	795
0143MW41(WATER)	796
0143MW13(WATER)	797
0143MW13(WATER)MS	798
0143MW13(WATER)MSD	799
0000TB27(WATER)	800
0064MW09(WATER)	801
0064MW09(WATER)QC	802
0000TB25(WATER)	803
0064MW10(WATER)	804
8283TW29(WATER)	805
0064TW21(WATER)	806
0143MW39(WATER)RS	808
0143MW11(WATER)	809
0143MW17(WATER)RS	810
0143MW43(WATER)	811
0143MW13(WATER)	812
0143MW13(WATER)MS	813

Identification	Carr Sample Number
0143MW13(WATER)MSD	814
0000TB28(WATER)	815
0000TB29(WATER)	816

Appendix C-2
SWMU 156 (WSMR-57):
1996 NMED Approval of Phase II RFI Report

WSMR Environment & Safety Tech Lib
2 8800 00025057 2

200-IR N105-COR 1996

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544

GARY E. JOHNSON
GOVERNOR

MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

September 4, 1996

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Thomas A. Ladd, Director
Directorate of the Environment & Safety
U.S. Army White Sands Missile Range (WSMR)
White Sands Missile Range, NM 88002-5048

Dear Mr. Ladd:

The New Mexico Environment Department (NMED) has reviewed the Phase II RCRA Facility Investigation (RFI) Report for Appendix I, II, III, and IV sites, dated December 1994, as well as the following associated correspondence: the Environmental Protection Agency's (EPA) May 23, 1996 notice of deficiency (NOD) regarding the above referenced report, and WSMR's October 11, 1995 response to the EPA's NOD. NMED approves the investigative data within the Phase II RFI Report except where specified in the attached NOD.

As the next phase of the environmental restoration process, and in conformance with WSMR's Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Wastes Amendments (HSWA) permit, NMED requests the following items within the prescribed time frames:

1. A comprehensive report regarding all contaminant releases and the associated risks at the High Energy Laser System Test Facility (HELSTF). NMED requires submittal of this report 180 days after WSMR's receipt of this correspondence.

2. A base-line risk assessment for all Solid Waste Management Units (SWMUs) identified in the above referenced report as having contaminant concentrations that exceed appropriate screening levels and where WSMR proposes not to remediate the SWMU to those screening levels. NMED requires submittal of the assessment 120 days after WSMR's receipt of this correspondence.

3. A proposal to the Hazardous and Radioactive Materials Bureau (HRMB) to perform a class III permit modification to remove the appropriate SWMUs from WSMR's RCRA/HSWA permit.

4. A phase III RFI workplan to complete the determination of

4. A phase III RFI workplan to complete the determination of the nature and extent of contamination at the appropriate SWMUs as identifies in the NOD. NMED requires submittal of the workplan within 180 days of WSMR's receipt of this correspondence.

5. A SWMU assessment report as outlined in WSMR's HSWA permit for those potential new contaminant sources identified in the Phase II RFI Report or stipulated in the attached comments. NMED requires submittal of the report 90 days after WSMR's receipt of this correspondence.

6. An addendum to the Phase II RFI Report responding to the attached NOD. NMED requires submittal of the addendum in 60 days of WSMR's receipt of this correspondence.

If you require further information or have questions, please contact Mr. Steve Pullen or Mr. Phillip Solano at (505) 827-1558 regarding RCRA technical or permitting issues respectively, or myself.

Sincerely,

for Ed Kelley, Director
Water and Waste Management Division

Attachment

xc: Benito Garcia, Chief, NMED HRMB (w/encl)
Marcy Leavitt, Chief, GWQB NMED (w/encl)
Gerald Silva, Chief, SWB NMED (w/encl)
Barbara Hoditschek, NMED HRMB (w/encl)
Steve Pullen, HRMB NMED (w/encl)
David Neleigh, EPA (w/encl)
Hector Magallanes, WSMR (w/encl)

ATTACHMENT
Notice of Deficiency (NOD)

General Comments:

1. The following is an explanation of the six (I-VI) documents referenced on the attached cover letter.

I. WSMR must provide to the Administrative Authority (AA) of their Resource Conservation and Recovery Act (RCRA) permit, the New Mexico Environment Department (NMED), a comprehensive report regarding all contaminant releases and the associated risks at the High Energy Laser System Test Facility (HELSTF).

Contaminant migration via groundwater transport has commingled plumes from multiple release sources under HELSTF. Petroleum hydrocarbons from the systemic diesel release site, intermingled with chromium contamination from Solid Waste Management Unit (SWMU) 143, is one example. Additionally, the Phase II RFI Report's SWMU specific reporting approach has provided little information regarding the source of groundwater contaminant releases below the Waste Lagoons (SWMUs 27-30), the Construction Landfill (SWMUs 38 and 39), Test Cell 4 Lagoon (SWMU 145), and the MAR Waste Stabilization Pond (SWMU 148). The report regularly states that "there is no apparent connection between the contaminants detected in the ---- and those found in the underlying groundwater ...".

NMED envisions a HELSTF facility wide report that provides contaminant concentration maps juxtaposed upon all possible release sources, identifies potentially threatening human and ecological risks and identifies all data gaps. NMED believes that little additional investigation should have to take place and that this will simply be a more logical reporting of current knowledge.

This report will be a prerequisite to regulatory concurrence on removing any HELSTF SWMUs from the Hazardous and Solid Waste Amendments (HSWA) module of WSMR's RCRA permit.

II. WSMR must provide a base-line risk assessment for all SWMUs identified in this report as having contaminant concentrations that exceed appropriate screening levels. NMED currently accepts EPA Region 3 Risk Based Concentration (RBCs) as the appropriate screening levels, and risk assessments performed according to EPA's Risk Assessment Guidance for

Superfund (RAGS). WSMR does have the option to remediate any SWMU to screening levels if it chooses to not perform a risk assessment.

III. WSMR should provide a proposal to the Hazardous and Radioactive Materials Bureau (HRMB) of the NMED to perform a class III permit modification to remove the appropriate SWMUs from WSMR's HSWA permit. Those SWMUs include the following: 10/11, 16, 17, 19/20, 62, 80, 132, 140,s 150, and 156.

IV. WSMR must provide a phase III RFI workplan to complete the determination of the nature and extent of contamination at the following SWMUs: 8/9, 14/15, 21, 63, 64, 65, 66-78, 82/83, 85, 94, and 148.

V. WSMR must provide a SWMU assessment report, as outlined in WSMR's HSWA permit, for those potential new contaminant release sources identified in the Phase II RFI Report, or stipulated in the attached comments.

VI. WSMR must provide an addendum to the Phase II RFI Report responding to the attached comments and concerns, particularly for SWMUs: 8/9, 27-30, 38/39, 63, 89, and 94.

2. NMED has established the precedent of disallowing continued contamination of the groundwater in the Tularosa Basin, regardless of its inherent poor quality. To implement this principle, existing contaminant plumes must be adequately characterized and monitor wells in those plumes must be sampled often enough to determine if a release source still exists. If contaminants at any point in a plume increase significantly in concentration, or if additional contaminants are discovered, further investigation may be required to locate and remove the source. This NMED policy was described in a letter to WSMR from Dr. Ed Kelley dated May 15, 1995.

3. Remediation of existing groundwater contamination will not be required by NMED at White Sands Missile Range in groundwaters that exceed the State protection standard of 10,000 mg/L TDS, unless a situation is present where a human or ecological receptor is exposed to unacceptable risk from contact with the contaminated groundwater. However, additional groundwater contamination will not be acceptable, regardless of groundwater quality, and the Environment Department will insist on remediation of any groundwater contamination resulting from current or future activities at White Sands Missile Range.

WSMR RFI Phase II Rpt.
Attachment
September 4, 1996

4. Besides HELSTF, a general comment applies to several SWMUs in other areas at WSMR: the State of New Mexico has a regulatory interest not only in the SWMUs themselves but in the ground water contamination beneath these areas, whatever its source. The RFI report recommends no further action at several SWMUs based on a conclusion that observed ground water contamination did not originate at the SWMU in question. This conclusion may well be true, but NMED cannot support termination of the investigation at the site, nor removal of these sites from WSMR's permit, without adequate commitment on WSMR's part to adequately investigate, monitor and report on all contamination. This comment applies to SWMUs 14/15, 16, 63, 64, 65, 82/83.

5. WSMR must submit a separate report that provides a more comprehensive evaluation of contamination at the HELSTF. This report should contain at a minimum the following items; an assessment of the risks at all sites, detailed contaminant iso-concentration maps for all environmental media including the various perched aquifers, a fate and transport model for all contaminants, an identification of all potential contaminant source areas and a list of all data gaps. (Reference general comment #1)

One of the uses of this information will be to establish a baseline of current contaminant concentrations to be used with future sampling information to determine if a contaminant source exists.

6. An additional comment applies to SWMUs 144 (LSTC Wastewater Discharge Point) and 146 (Dry Pond): the ongoing discharges at these locations have measured concentrations of hazardous constituents that, at a minimum, violate the environmental anti-degradation policy of this department. A worst case scenario is that hazardous constituent concentrations measured in ground water monitoring wells associated with these SWMUs suggests that hazardous wastes have been discharged in violation of statutorily mandated land disposal restrictions (LDRs). WSMR must immediately comply with NMED anti-degradation policy by stopping the discharge of hazardous constituents to the environment, must submit an Notice of Intent (NOI) to the NMED Ground Water Quality Bureau (GWQB), and abide by the requirements of the Waste Analysis Plan (WAP) in WSMR's RCRA permit.

7. WSMR's Module VIII of their RCRA Permit (HSWA Corrective Action), Section I (RCRA Facility Investigation Report and Summary), requires that a final RFI Report discuss "actual or potential receptors" of contamination and "contain adequate

information to support further corrective action decisions". NMED policy for RCRA regulated sites is that if a site exceeds action levels or regulatory standards, a facility has the option to cleanup to those levels or the facility may provide a complete baseline risk assessment (RA) as outlined in the EPA's Risk Assessment Guidance for Superfund (RAGS).

Therefore, NMED will not grant NFA at any site where an action level has been attained or exceeded without appropriate risk justification. (Reference general comment #1)

If a New Mexico Water Quality Control groundwater standard is exceeded in protected waters, and WSMRs wishes to not cleanup to that standard, the facility will have to petition the Water Quality Control Commission for a variance.

8. Additionally, NMED requires that WSMR quantify risk at all SWMUs using the standard EPA default parameters for a residential exposure scenario. This requirement will stay in effect until there can be an agreement between the facility and the regulatory agencies about future land use of individual sites. For your information, NMED believes that current land use is an appropriate estimation of future land use at WSMR. However, should risk based cleanup concentrations at a site be something less than those determined through the most conservative exposure scenario (i.e. residential), there must be mechanisms in place that would ensure a re-evaluation of the risk should land use change.

9. An ecological risk assessment will be required for all SWMUs where contaminant concentrations exceed action levels. If WSMR wishes to forego an ecological assessment at some SWMUs, rationale must be provided.

10. If a site is contaminated above action levels, and a risk assessment suggests there are no unacceptable risks at the site based on less than the most conservative exposure scenario (i.e. residential), and the appropriate regulatory agencies agree with the assessment, WSMR should be prepared to survey the contaminated area and enter the results of the risk assessment, along with all its qualifiers, into a deed restriction for the particular site. This action is a state requirement for regulator concurrence on no-further-action (NFA) proposals.

11. For future reference, Subpart S action levels stipulated in FR072790 may not be determined with the most currently accepted toxicological/epidemiological information used to calculate reference doses or carcinogenic slope factors. The NMED, and EPA Region 6, prefer the more current "Risk Based Concentration (RBC)

Table" which is guidance published by the EPA Region III. This table may be obtained by telephoning 215-597-3179.

12. NMED requires that in the future WSMR be more systematic about how it reports contaminant concentration exceedances at its HSWA corrective action sites. The priority of concern is as follows; first - regulatory standards (i.e. Maximum Contaminant Levels (MCLs) or state groundwater standards), second - screening action levels, third-background concentrations, fourth - any facility specific standards.

Exceedances of a toxicity characteristic (TC) for soils is only relevant to the HSWA corrective action process if these soils are proposed to be land disposed at an alternate location. All analytical data to be used to determine risk at a SWMU must be reported as a "total" value.

13. NMED considers the delineation of the extent of contamination complete, as required by a RFI, when a responsible party has investigated out to "action levels" in all directions. However, should a risk analysis determine that the action level concentration represents an unacceptable risk, delineation within the particular environmental medium must continue until concentrations are diminished to an acceptable level. Please evaluate in an addendum to the Phase II Report all SWMUs for completeness of delineation considering this criterion.

14. WSMR is encouraged to perform a removal action in lieu of investigating and evaluating risk at a site. WSMR will be held responsible for confirming and documenting both complete removal and proper disposal of the contaminated media.

15. WSMR is proposing to land dispose of various types of contaminated media, including soils, that would not be considered hazardous waste. The NMED Solid Waste Bureau (SWB) has on file a WSMR NOI to dispose of the special waste "sludge". WSMR has not previously submitted a NOI to dispose of the special wastes "petroleum" or "chemical" contaminated soils. Disposal of new solid waste may require a permit. Please clarify this with the SWB at (505) 827-0197 prior to disposing of any soils.

16. Table 3.0-1 and Section 3.5 reference New Mexico land disposal standards from the "New Mexico Solid Waste Management Regulations" 1991, the current and applicable regulations are the 1994 edition. Page 98 of the 1994 edition specifies a disposal restriction on soils with benzene concentration greater than 10 mg/Kg, not the 100 mg/Kg stated in Section 3.5.

WSMR RFI Phase II Rpt.
Attachment
September 4, 1996

17. Closed or otherwise inoperable non-hazardous landfills must be closed at a minimum according to the New Mexico Solid Waste Management Regulations (SWMRs) in place at the time of closure. In addition, landfills closed after October 9, 1991 need to meet the final cap requirements as described in section 501.K of the current SWMRs (EIB/SWMR-4). The following list identifies the reference number and date of implementation of the four sequential regulations:

EIB/SWMR-1	April	1974
EIB/SWMR-2	April	1989
EIB/SWMR-3	Dec	1991
EIB/SWMR-4	July	1994

NMED would prefer the 1994 regulation guidance be conformed to due to it being the most protective. Please contact the Department if any of the above mentioned regulations are needed.

18. WSMR's RCRA Part B Module VIII (HSWA) Permit, Section E requires notification of any newly identified SWMUs. WSMR must submit documentation, including historical photographs and personnel interviews, that resulted in the identification of the new SWMUs. Numerous new potential landfills have been identified that must undergo the reporting requirements. (Reference general comment #1)

19. Confirmatory sampling and an associated report will be required at SWMUs undergoing voluntary corrective measures or closure.

Site specific comments:

SWMUs 8/9, Waste Oil Tank and Sump: A removal action was taken by WSMR at this site. Please clarify in an addendum to the Phase II Report the extent to which discrete soil samples were collected directly below the former UST. If additional sampling is necessary, WSMR shall provide a Phase III RFI workplan to the AA.

See general comments: 7, 12, 13, 19

SWMUs 10/11, Vehicle Wash Pad and Drains, Sump and Oil/Water Separator: No contaminate concentrations were discovered during the RFI that exceed action levels. Furthermore, institutional controls are in place to prevent any future discharges off of the wash pad, drains and sump. The Administrative Authority agrees with WSMR's conclusions and recommends no further action at these SWMUs.

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SWMUs 14/15, Used Battery Accumulation Areas: The report indicates considerable uncertainty about the source and the extent of lead and other contamination in this area. It may be true that these SWMUs as defined are not the source of the contamination, but New Mexico Water Quality Control Commission regulations, among others, focus on the presence of contaminants rather than on specific SWMUs. Under these regulations WSMR's responsibility is to determine the source and extent of contamination, even if this requires broadening the area of investigation beyond an individual SWMU. Enough additional investigation must be done to ensure that serious contamination is not present in the ditches, around the above-ground storage tanks (ASTs), or in other areas adjacent to the areas investigated already.

The AA concurs with WSMR's suggestion to properly dispose of the sludges from this site. The AA does not believe a Corrective Measure Study (CMS) is an appropriate process to investigate a source and the extent of contamination. WSMR may either submit a SWMU assessment report for the ASTs to determine if a new SWMU should be established, or perform a phase III investigation. If WSMR shows that there is an alternate source of contamination and commits to investigate that source, WSMR may propose a permit modifications to remove this SWMU from its permit.

See general comments: 10, 13, 18

SWMU 16, Heavy Equipment Wash Pad and Drain: The RFI analytical data provides no indication of a source other than the asphalt ditch liner for the total petroleum hydrocarbon (TPH) levels. Therefore, WSMR may propose a Class III permit modification to remove this SWMU from its HSWA permit.

SWMU 17, Waste Underground Injection Pipe: No constituents related to the operational history of this SWMU were found during the RFI. The AA concurs with WSMR's conclusion and recommends no further action at this SWMU. WSMR may propose a Class III permit modification to remove this SWMU from its HSWA permit.

SWMUs 19 and 20, Steam Wash Pad and Drain, and Oil/Water Separator: No constituents related to the operational history of this SWMU were found during the RFI. The AA concurs with WSMR's conclusion and recommends no further action at this SWMU. WSMR may propose a Class III permit modification to remove this SWMU from its HSWA permit.

SWMU 21, Former Fire Fighting Training Area (FFTA): Contaminated soils at this site were excavated and WSMR has not provided any

confirmatory sampling results to the AA. Please provide those sampling results or in a phase III RFI workplan explain how WSMR will evaluate the potential for residual contamination at depth. If WSMR can provide this information to the satisfaction of the AA, the investigative phase will be considered complete and a risk assessment should be performed for the site.

See general comments: 7, 8, 9, 10, 13, 14, 15, 19

SWMU 22, Abandoned Pit near FFTA: The conclusions state "although detectable levels of TPH are present at the 2-3 ft. depth in the pile, the vertical extent of contamination decreases greatly at this depth." The Phase I Report states that in the only non-hand augered boring performed at this site the highest concentrations of TPH were encountered at the 4-5 foot depth (3,100 mg/kg). Confirmatory samples will be required to ensure that the complete vertical and horizontal extent of contamination has been removed. If WSMR can provide this information to the satisfaction of the AA, the investigative phase will be considered complete and a risk assessment should be performed for the site.

See general comments: 7, 8, 9, 10, 13, 14, 15, 19

SWMUs 27-30, HELSTF Sewage Treatment Lagoons: We cannot concur with WSMRs contention that the current operable lagoons do not appear to be a release source. The Potentiometric Surface Map (Figure No. 6.10-12) illustrates a substantial groundwater mound directly under the lagoons. Please elaborate on this contention, perhaps by providing a net water balance calculation showing that net losses to SWMU 146 equal net gains.

Please explain in an addendum to the Phase II Report whether sediment samples taken within the lagoons exceeded any action levels.

The AA does understand that the previous lagoons might be contributing contaminants to the groundwater. Therefore, WSMR is required to submit to NMED a comprehensive environmental report regarding HELSTF that includes, among other things, a groundwater monitoring plan that will determine if there is an on-going release of contaminants to the groundwater in the area of this SWMU group.

Please discuss the relevance of up and down gradient monitor wells in light of the gradient reversals described on page 6.10-6 and the "leaky/stair stepping" and "flowing downwards and away from the discharge point" type situation described in the section for SWMU 146.

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WSMR must propose a way to determine if the high pH described on page 6.10-5 is simply the result of monitor well construction materials or if it is a result of a more pervasive contaminant. NMED has found that with continued development of a monitor well, grout contamination generally dissipates.

A risk assessment must be performed for these SWMUs.

See general comments: 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13

SWMUs 38 and 39, HELSTF Construction Landfills: Please elaborate in an addendum to the Phase II Report on the construction details of the "cap" mentioned on page 6.11-2. If that cap is not in conformance with the specifications of the New Mexico Solid Waste Management Regulations in place at the time of closure (1989), or preferably the specifications of the current regulations, WSMR must upgrade the cap.

Conclusion and Recommendation #8 suggest that both the perched groundwater and its associated contamination emanate from the wastewater discharge at SWMU 144. NMED cannot agree with the conclusion that the landfill is not a source of contamination based solely on the limited number of discreet samples and a soil vapor survey.

WSMR must augment existing HELSTF groundwater monitoring to measure for a possible release to the groundwater of the shallow soil contaminants identified in the Phase I report. The monitoring plan should also include measurements of the regional aquifer to test for possible contaminant communication between the aquifers and to verify the existence of heptachlor.

Please provide a potentiometric surface map of the perched aquifer to support the contention that the waste water discharge at SWMU 144 is the source of shallow groundwater below SWMUs 38 and 39. Is the sentence on page 6.11-10 "The observed groundwater levels tend to decrease in depth with an increasing distance from the wastewater discharge point." correct?

See general comments: 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 17

SWMU 62, Former Sewage Treatment Plant: The AA agrees with WSMRs conclusions and recommends that this SWMU be de-listed from WSMR's HSWA permit under a Class III Permit Modification.

SWMU 63, Former Sanitary Landfill No. 1: If WSMR wishes to remove this SWMU from its permit, it must provide and refute in an

addendum to the Phase II Report, the original rational for creating this site as a SWMU. If WSMR cannot definitively establish that a landfill has not been at or near this location, WSMR may propose a "conditional" permit modifications to remove this SWMU from its permit with a condition of long term groundwater monitoring. The Administrative Authority also requires that WSMR submit a SWMU assessment report for the alternate landfill location to determine if a new SWMU should be established.

To better understand the refocussing of the investigation of this SWMU, NMED asks that WSMR provide, in a SWMU assessment report, copies of the historical aerial photographs referenced on page 6.13-3.

WSMR must evaluate and investigate the source of the elevated levels of contaminants in the groundwater below this site in a phase III RCRA Facility Investigation.

In Table 6.13-1, for well 0063MyW06, the TDS value (27,210 mg/L) and the conductance value (512 uS/cm) do not seem to match. This well should be resampled for TDS (at least) at some point in the future.

See general comments: 2, 3, 11, 12, 13, 18

SWMU 64, Former Sanitary Landfill No. 2: If WSMR wishes to remove this site from its permit, it must provide and refute in an addendum to the Phase II Report, the original rational for creating this site as a SWMU. If WSMR cannot definitively establish that a landfill has not been at or near this location, WSMR may propose a "conditional" permit modifications to remove this SWMU from its permit with a condition of long term groundwater monitoring. The Administrative Authority also requires that WSMR submit a SWMU assessment report for the alternate landfill location to determine if a new SWMU should be established.

WSMR must evaluate and investigate the source of the elevated levels of contaminants in the groundwater below this site. Please elaborate on whether the metals concentrations measures in the groundwater below this site are above background concentrations or not. RCRA guidelines require that totals concentrations in groundwater be considered. This may be in addition to the New Mexico Water Quality Control Commission (WQCC) requirement to consider the dissolved fraction.

See general comments: 2, 3, 4, 7, 8, 11, 12, 13, 17, 18,

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SWMU 65, Former WSMR Post Sanitary Landfill No. 3: WSMR must propose how it will verify the existence of, and delineate the extent of, 1,1 Dichloroethene and 1,1,1-Trichloroethane in the underlying groundwater in a phase III RFI workplan.

A complete baseline risk assessment as outlined in general comments 7, 8, 9 is required for this site.

Please elaborate on the cover of this landfill and abide by general comments 16 and 17.

See general comments: 2, 4, 11, 12, 13, 14, 15, 18

SWMUs 66-78, Main Post Sewage Treatment Plant: The nitrate problem in the groundwater below the Main Post may be relevant to this RCRA/IRP investigation, in that it is not clear what contribution SWMU 66 or the STP has made to that problem. WSMR must provide additional information through a Phase III RFI regarding this problem. If these SWMUs do appear to be the release source, WSMR must identify if the hazardous constituents found at these SWMUs are also are infiltrating to the aquifer with the nitrogen compounds.

The extent and source of the high TPH concentrations should be confirmed.

A complete baseline risk assessment is required for this site.

WSMR shall submit procedures to prevent the release of RCRA metals into the wastewater stream prior to irrigation of the surrounding vegetation.

See general comments: 2, 3, 4, 7, 8, 10, 11, 12, 13, 14, 19

SWMU 80, STP Waste Pile: A removal action has been performed at this site and documentation of a complete removal has been submitted. Therefore, WSMR should submit a proposal to remove this SWMU from the HSWA Permit.

SWMUs 82, 83 STP Former Drainage Ditch: WSMR must outline how it will evaluate and investigate the source of the elevated levels of contaminants in the groundwater below this site in a phase III workplan. Please elaborate in an addendum to this report whether the metals concentrations measures in the groundwater below this site are above background concentrations or not. RCRA guidelines require that totals concentrations in groundwater be considered.

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Measured concentrations of cyanide may or may not pose a health risk depending on the chemical form of the cyanide. WSMR must perform this evaluation and include this information in the risk assessment.

Effluent continues to enter these ditches when the capacity of the effluent pipe to the Playa Lake is exceeded. This information must be submitted to the Ground Water Protection and Remediation Bureau, Ground Water Discharge Permit Section under a separate letter. This reviewer has given Ms. Marchell Schuman of that Section notice of these occurrences. The AA concurs with WSMRs recommendation that repairs and design modifications of the splitter box and pipe are implemented so that the system can handle high discharges without overflowing into the SWMUs. Confirmation that repairs and institutional controls have been implemented shall be submitted prior to removing the units from the HSWA process via the Class III permit modification.

WSMR must identify an alternative source for the contaminants detected in the groundwater before these SWMUs can be eliminated as possible source location.

See general comment: 2, 3, 4, 7, 8, 9, 10, 11, 12, 13

SWMU 85, STP Playa Lake: To complete the RFI and to fully establish the environmental risk posed by the Playa Lake, WSMR must determine three things. First, if the groundwater below the lake is potable and part of the Main Post's drinking water supply. Second, whether the heavy metals found in the lake have infiltrated into the groundwater. Finally, what are the ecological risks at this unique habitat? WSMR must evaluate these issues through a phase III RFI.

See general comments: 2, 7, 8, 9, 11, 12, 13

SWMU 89, Hazardous Waste Storage Facility, Former Evaporation Tank: Photographic laboratory wastes are identified as having been stored in the evaporation tank, yet there is no specific discussion of silver contamination. Please provide a discussion regarding silver in a Phase III RFI report.

Because of the nature of the site, a Hazardous Waste Storage Facility, and the length of time in operation, a more thorough evaluation of possible groundwater contamination must be performed. NMED requires that a complete 40 CFR, Part 264, Appendix IX (Groundwater Monitoring List) analysis be performed.

A complete baseline risk assessment is required for this site.

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Please explain in an addendum to the Phase II Report how the investigation of this SWMUs is associated with the clean closure proposal for the permitted Hazardous Waste Management Unit.

See general comments: 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 19

SWMU 94, LPSA Storage Area Pit: The Phase I investigation identified benzidine and n-nitrosopimethylamine as constituents exceeding action levels. However, the Phase II investigation did not verify the existence of the constituents. WSMR must supply an explanation for this discrepancy in an addendum to this report.

The investigation of groundwater and its possible contamination is insufficient. The existence of perched groundwater below the site is not explained and a water sample collected through augers is not a verifiable sampling technique.

WSMR must initiate a 3rd phase of investigation for this SWMU.

See general comments: 2, 3, 4, 7, 8, 9, 10, 11, 12, 13, 14, 19

SWMU 132, Waste Stabilization Pond Near Orogrange Range Camp: Though this SWMU is on WSMR property, the Waste Stabilization Pond is the result of Fort Bliss's (FB) waste handling practices and FB has agreed to perform the related corrective action. Therefore, WSMR should submit a proposal to remove this SWMU from the facility's HSWA permit.

SWMU 140, LC-37 Paint Dump: A removal action has taken place at this site to the satisfaction of the AA. Therefore, WSMR should submit a proposal to remove this SWMU from the facility's HSWA permit.

SWMU 143, Chrome Spill Site: WSMR must perform a risk assessment to fully evaluate the threat to human health and the environment at this site, and any other site where contaminants from this SWMU may have had an impact.

See general comments: 2, 3, 4, 5, 7, 8, 10, 11, 12, 13

SWMU 144, LBTC Wastewater Discharge Point: WSMR must evaluate in an addendum to this report whether the background inorganic concentrations referenced are appropriate. If these background concentrations are non-authigenic, WSMR must determine and report their source, and if an alternate source is located, a SWMU assessment report must be submitted.

WSMR must perform a risk assessment to fully evaluate the threat to human health and the environment at this site and any other site where contaminants from this SWMU may have had an impact.

See also general comments: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 18

SWMU 145, Test Cell 4 Lagoon: NMED agrees with the WSMR proposal to dismantle the piping to this unit. Making this unit incapable of receiving additional wastes will be a prerequisite for removing the SWMU from WSMR's permit.

WSMR must perform a risk assessment to fully evaluate the threat to human health and the environment at this site.

See general comments: 2, 3, 4, 5, 7, 8, 10, 11, 12, 13

SWMU 146, Dry Pond: NMED disagrees with WSMR's suggestion that "there are no significant evidence of a release of contaminants" from this SWMU. The report states that groundwater below the site contains 1,1-Dichloroethelene, 1,1,1-trichloroethane and carbon tetrachloride above regulatory levels.

WSMR must perform a risk assessment to fully evaluate the threat to human health and the environment at this site and any other site where contaminants from this SWMU may have had an impact.

See general comment: 2, 3, 4, 6, 7, 8, 10, 11, 12, 13

SWMU 147, Decontamination Pad "Underground" Waste Tank: NMED approved the workplan for this site, including its proposed soil sampling, and does not concur with the deletion of the sampling from the activities performed. It is inappropriate that we were not consulted about this decision, and we require that appropriate sampling be done. The question of whether the tank in question was above or below grade is irrelevant to the contamination that may be present. This site must be properly investigated in the light of what its contribution may be to the ground water contamination in the area and the overall risk it poses.

See general comments: 2, 3, 4, 5, 7, 8, 10, 11, 12, 13, 14

SWMU 148, MAR Waste Stabilization Pond: Minimal effort was spent to investigate below the soil used to fill the closed pond. WSMR must evaluate in a phase III RFI report the nature and extent of "deeper" soil contamination at this site to determine whether it is a source for groundwater contamination.

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See general comments: 2, 3, 4, 5, 8, 10, 11, 12, 13

SWMU 150, MAR Dump: A removal action was performed a this site in which all soil contaminants above action levels were removed.

The AA concurs with WSMR's conclusions and recommends removal of this SWMUs from WSMR's permit. WSMR should propose a permit modification for this site.

SWMU 156, Building T-1348: A removal action was performed a this site in which all soil contaminants above action levels were removed.

The AA recommends removal of this SWMUs from WSMR's permit. WSMR should propose a permit modifications for this site.

APPENDIX C

CRITERIA FOR NO FURTHER ACTION PROPOSALS

NO FURTHER ACTION (NFA) PROPOSALS
CRITERIA

NFA Criterion 1 The Solid Waste Management Unit/Area of Concern (SWMU/AOC) cannot be located, does not to exist or is a duplicate SWMU/AOC.

NFA Criterion 2 The SWMU/AOC has never been used for the management (i.e., generation, treatment, storage and/or disposal) of Resource Conservation and Recovery Act (RCRA) solid waste or hazardous wastes and/or constituents or other Comprehensive Environmental Response, Conservation and Liability Act (CERCLA) hazardous substances.

NFA Criterion 3 No release to the environment has occurred or is likely to occur in the future from the SWMU/AOC.

NFA Criterion 4 A release from the SWMU/AOC to the environment has occurred, but the SWMU/AOC was characterized and/or remediated under another authority (such as the New Mexico Environment Department's Underground Storage Tank or Ground Water Quality Bureaus), which adequately addressed RCRA corrective action, and documentation, such as a closure letter, is available.

NFA Criterion 5 The SWMU/AOC has been characterized or remediated in accordance with current applicable state or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use.

Appendix C-3
SWMU 156 (WSMR-57):
2006 Screening Level Risk Assessment

APPENDIX G

SWMU 156 SLERA

SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT
SCOPING ASSESSMENT
SITE ASSESSMENT CHECKLIST

NEW MEXICO ENVIRONMENT DEPARTMENT
SITE ASSESSMENT CHECKLIST

I. SITE LOCATION

1. Site Name: SWMU 156 Former Pesticide Storage Shed
   US EPA I.D. Number: NM2750211235
   Location: Tularosa Basin within White Sands Missile Range
   County: Dona Ana
   City: WSMR State: NM

2. Latitude: 32º 22´ 11.56˝ Longitude: 106º 29´ 39.95˝

3. Attach site maps, including a topographical map, a diagram which illustrates the layout of the facility (e.g., site boundaries, structures, etc.), and maps showing all habitat areas identified in Section III of the checklist. Also, include maps which illustrate known release areas, sampling locations, and any other important features, if available.

II. SITE CHARACTERIZATION

1. Indicate the approximate area of the site (i.e., acres or sq. ft) 0.25 acres

2. Provide an approximate breakdown of the land uses on the site:

_____% Heavy Industrial	_____% Light Industrial	_____% Urban
_____% Residential	_____% Rural	_____% Agricultural[b]
100 % Recreational[a]	_____% Undisturbed	_____% Other[c]

[a]For recreational areas, please describe the usage of the area (e.g., park, playing field, etc.): The area is on a golf course.

[b]For agricultural areas, please list the crops and/or livestock which are present:
_____

[c]For areas designated as "other", please describe the usage of the area:
_____

3. Provide an approximate breakdown of the land uses in the area surrounding the site. Indicate the radius (in miles) of the area described: 2 miles.

_____% Heavy Industrial	_____% Light Industrial	_____% Urban
25____% Residential	_____% Rural	_____% Agricultural[b]
50___% Recreational[a]	25____% Undisturbed	_____% Other [c]

[a]For recreational areas, please describe the usage of the area (e.g., park, playing field, golf course, etc.):
Golf course.

[b]For agricultural areas, please list the crops and/or livestock which are present:
_____

[c]For areas designated as "other", please describe the usage of the area:
_____
_____

4. Describe reasonable and likely future land and/or water use(s) at the site.
This site is likely to remain a golf course for the foreseeable future.

5. Describe the historical uses of the site. Include information on chemical releases that may have occurred as a result of previous land uses. For each chemical release, provide information on the form of the chemical released (i.e., solid, liquid, vapor) and the known or suspected causes or mechanism of the release (i.e., spills, leaks, material disposal, dumping, explosion, etc.).

The pesticide storage shed was located at the Main Post Golf Course approximately and was used for over 30 years to store pesticides, fungicides, and pesticide equipment. The metal building with wooden-plank flooring was set on a concrete foundation measuring 20 by 50 feet. Potential releases of pesticides occurred at the site. Subsequent to site sampling, the building and foundation were removed and the site was graded to conform to the golf course topography.

If any movement of soil has taken place at the site, describe the degree of the disturbance. Indicate the likely source of any disturbances (e.g., erosion, agricultural, mining, industrial activities, removals, etc.) and estimate when these events occurred.

The concrete pad and wooden floor of the storage shed, and two feet of soil from the building footprint were removed and disposed in the WSMR landfill in 1996. Three confirmatory soil samples were collected from the excavation floor and analyzed for herbicides, pesticides, and RCRA metals using TCLP. The excavated area was bladed flat and contoured to match the surrounding terrain. No TCLP pesticides or herbicides were detected.

6. Describe the current uses of the site. Include information on recent (previous 5 years) disturbances or chemical releases that have occurred. For each chemical release, provide information on the form of the chemical released and the causes or mechanism of the release.

The current use of the site since 1996 is a "rough" area off of a golf course fairway. No additional chemical releases are known at this site besides those associated with grounds keeping.

7. Identify the location or suspected location of chemical releases at the site. Provide an estimate of the distance between these locations and the areas identified in Section III.

Pesticides and herbicides were detected beneath the former pesticide storage shed. The contaminated soil was removed and disposed in 1996.

8. Identify the suspected contaminants of concern (COCs) at the site. If known, include the maximum contaminant levels. Please indicate the source of data cited (e.g., RFI, confirmatory sampling, etc.).

The COCs at the site included pesticides and herbicides. The contaminated soil was removed along with the source (pesticide storage shed) in 1996 (see Main Post Phase III RFI Characterization Report to which this checklist is attached). Confirmatory soil samples indicated non-detects for COCs.

9. Identify the media (e.g., soil (surface or subsurface), surface water, air, groundwater) which are known or suspected to contain COCs. _____
Prior to contaminated soil removal in 1996, soil (< 2 ft bgs) contained pesticides and herbicides.

10. Indicate the approximate depth to groundwater (in feet below ground surface [(bgs)].
Based on numerous wells (including SW-12, OS-12, and T-12) located in and around the Main Post area, the depth to water is greater than 250 ft bgs.

11. Indicate the direction of groundwater flow (e.g., north, southeast, etc.)

The ground water flow is to the east away from the mountain front.

III. HABITAT EVALUATION

III.A Wetland Habitats

Are any wetland[1] areas such as marshes or swamps on or adjacent to the site?

☐ Yes X No

If yes, indicate the wetland area on the attached site map and answer the following questions regarding the wetland area. If more than one wetland area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual wetland area. Distinguish between wetland areas by using names or other designations (such as location), and clearly identify each area on the site map. Also, obtain and attach a National Wetlands Inventory Map (or maps) to illustrate each wetland area.

Identify the sources of the observations and information (e.g., National Wetland Inventory, Federal or State Agency, USGS topographic maps) used to make the determination that wetland areas are or are not present.

USGS Topographic Maps

If no wetland areas are present, proceed to Section III.B.

1Wetlands are defined in 40 CFR §232.2 as " Areas inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Examples of typical wetlands plants include: cattails, cordgrass, willows and cypress trees. National wetland inventory maps may be available at http:\\nwi.fws.gov. Additional information on wetland delineation criteria is also available from the Army Corps of Engineers.

III.B Aquatic Habitats

III.B.1 Non-Flowing Aquatic Features

Are any non-flowing aquatic features (such as ponds or lakes) located at or adjacent to the site?

☐ Yes X No

If yes, indicate the aquatic feature on the attached site map and answer the following questions regarding the non-flowing aquatic features. If more than one non-flowing aquatic feature is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual aquatic feature. Distinguish between aquatic features by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.B.2.

III.B.2 Flowing Aquatic Features

Are any flowing aquatic features (such as streams or rivers) located at or adjacent to the site?

X Yes ☐ No

If yes, indicate the aquatic feature on the attached site map and answer the following questions regarding the flowing aquatic features. If more than one flowing aquatic feature is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual aquatic feature. Distinguish between aquatic features by using names or other designations, and clearly identify each area on the site map

If no, proceed to Section III.C.

Flowing Aquatic Feature Questions

☐ Onsite X Offsite

Name or Designation: Unnamed Arroyo

1. Indicate the type of flowing aquatic feature present.

   - ☐ River
   - ☐ Stream
   - ☐ Creek
   - ☐ Brook
   - ☐ Dry wash
   - X Arroyo
   - ☐ Intermittent stream
   - ☐ Artificially created (ditch, etc.)
   - ☐ Other (specify)
   - ☐

2. Indicate the general composition of the bottom substrate.

☐ Bedrock	X Sand	☐ Concrete
☐ Boulder (>10 in.)	☐ Silt	☐ Debris
X Cobble (2.5 - 10 in.)	☐ Clay	☐ Detritus
X Gravel (0.1 - 2.5 in.)	☐ Muck (fine/black)	

☐ Other (please specify):_____

3. Describe the condition of the bank (e.g., height, slope, extent of vegetative cover) of the aquatic feature.

   Some vegetative cover is present along the bank. The bank is approximately 2 ft high gentle slope to near vertical.

4. Is there a discharge from the facility to the aquatic feature? ☐ Yes X No

   If yes, describe the origin of each discharge and its migration path:

   A berm exists between the site and the arroyo.

5. Indicate the discharge point of the water body. Specify name, if known.

   The arroyo does not discharge to a water body. It loses its channel identity to the east.

Flowing Aquatic Feature Questions (Continued)

6. If the flowing aquatic feature is a dry wash or arroyo, answer the following questions.

   ❑ Check here if feature is not a dry wash or arroyo

   If known, specify the average number of days in a year in which flowing water is present in the feature: approximately < 5 times a year.

   Is standing water or mud present? Check all that apply.

   ❑ Standing water

   ❑ Mud

   X Neither standing water or mud

   Does the area show evidence of recent flow (e.g., flood debris clinging to vegetation)?

   X Yes

   ❑ No

   ❑ Not sure

7. Animals observed in the vicinity of the aquatic feature or suspected to be present based on indirect evidence or file material:

   X Birds

   ❑ Fish

   X Mammals

   X Reptiles (e.g., snakes, turtles)

   ❑ Amphibians (e.g., frogs, salamanders)

   ❑ Sediment-dwelling invertebrates (e.g., mussels, crayfish, insect nymphs)

   Specify species, if known:

   _____

   _____

   _____

   _____

III.C Terrestrial Habitats
III.C.1 Wooded

Are any wooded areas on or adjacent to the site? ☐ Yes X No

If yes, indicate the wooded area on the attached site map and answer the following questions. If more than one wooded area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual wooded area. Distinguish between wooded areas by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.2.

III.C.2 Shrub/Scrub

Are any shrub/scrub areas on or adjacent to the site? X Yes ☐ No

If yes, indicate the shrub/scrub area on the attached site map and answer the following questions. If more than one shrub/scrub area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual shrub/scrub area. Distinguish between shrub/scrub areas, using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.3.

Shrub/Scrub Area Questions

X Onsite ☐ Offsite

Name or Designation: Chihuahuan Desert Scrub

1. Estimate the approximate size of the shrub/scrub area (in acres or sq. ft.).
   Surrounding the site there are tens of thousands of acres of Chihuahuan Desert Scrub.

2. Indicate the dominant type of shrub/scrub vegetation present, if known.

Surrounding vegetation is comprised of typical lower bajada species dominated by honey mesquite (*Prosopus glandulosa*). Species of vegetation at the site are consistent with those associated with relatively recently disturbed soils and is currently dominated by purple scorpionweed (*Phacelia neomexicana*) and narrowleaf pepperweed (*Lepidium alyssoides*).

3. Estimate the vegetation density of the shrub/scrub area.

   - ☐ Dense (i.e., greater than 75% vegetation)
   - X Moderate (i.e., 25% to 75% vegetation)
   - ☐ Sparse (i.e., less than 25% vegetation)

4. Indicate the approximate average height of the scrub/shrub vegetation.

   - ☐ 0-2 feet
   - X 2-5 feet
   - ☐ >5 feet

5. Animals observed in the shrub/scrub area or suspected to be present based on indirect evidence or file material:
   - X Birds
   - X Mammals
   - X Reptiles (e.g., snakes, lizards)
   - ☐ Amphibians (e.g., toads, salamanders)

Specify species, if known:
Black-tailed jackrabbits (*Lepus californicus*) and desert cottontail rabbits (*Sylvilagus audubonii*) occur in the WSMR Main Post area with high frequency. Oryx (*Oryx gazella*), mule deer (*Odocoileus hemionus*), mourning dove (*Zenaida macroura*), and scaled quail (*Callipepla squamata*) also occur in the area. Non-game wildlife sited around the Main Post includes raptors such as red-tailed hawks (*Buteo jamaicensis*), Swainson's hawks (*Buteo swainsoni*), and American kestrels (*Falco sparverius*). Songbirds common around Main Post include black-throated sparrows (*Amphispiza bilineata*), house finches (*Carpodacus mexicanus*), and Say's phoebes (*Sayornis saya*).

III.C.3 Grassland

Are any grassland areas on or adjacent to the site? ☐ Yes X No

If yes, indicate the grassland area on the attached site map and answer the following questions. If more than one grassland area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual grassland area. Distinguish between grassland areas by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.4.

III.C.4 Desert

Are any desert areas on or adjacent to the site? X Yes ☐ No

If yes, indicate the desert area on the attached site map and answer the following questions. If more than one desert area is present on or adjacent to the site, make additional copies of the following questions and fill out for each individual desert area. Distinguish between desert areas by using names or other designations, and clearly identify each area on the site map.

If no, proceed to Section III.C.5.

Desert Area Questions

X Onsite ☐ Offsite
Name or Designation: Chihuahuan Desert

1. Estimate the approximate size of the desert area (in acres or sq. ft.). This site including WSMR is contained within tens of thousands of acres of the Chihuahuan Desert.

2. Describe the desert area (e.g., presence or absence of vegetation, vegetation types, presence/size of rocks, sand, etc.)

   Many volumes of literature have been written on the natural biota of the Chihuahuan Desert. Detailed descriptions about the biotic communities within WSMR can be found in the WSMR Integrated Natural Resource Management Plan. Habitats directly associated with this Site include typical desert scrub communities.

3. Animals observed in the desert area or suspected to be present based on indirect evidence or file material:

   X Birds
   X Mammals
   X Reptiles (e.g., snakes, lizards)
   ❑ Amphibians (e.g., toads, salamanders)

   Specify species, if known:

   Species lists compiled and developed by resource experts on WSMR indicate that there are over 1,000 species of vegetation, nearly 300 species of birds, 55 species of reptiles and amphibians, and 70 species of mammals confirmed within WSMR (Pers. comm. David Anderson and Doug Burkett). Invertebrate assemblages within WSMR are poorly documented but certainly there are thousands of species.

III.C.5 Other

1. Are there any other terrestrial communities or habitats on or adjacent to the site which was not previously described?

   ☐ Yes X No

   If yes, indicate the "other" area(s) on the attached site map and describe the area(s) below. Distinguish between onsite and offsite areas. If no, proceed to Section III.D.

   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____
   _____

III.D Sensitive Environments and Receptors

1. Do any other potentially sensitive environmental areas[2] exist adjacent to or within 0.5 miles of the site? If yes, list these areas and provide the source(s) of information used to identify sensitive areas. *Do not answer "no" without confirmation from the U.S. Fish and Wildlife Service and appropriate State of New Mexico division.*

   _____
   _____

   NO. Consultation with the latest information available through WSMR resource Managers and the latest literature available through the USFWS and NMDGF indicate that no sensitive environmental areas exist within 3 miles of the Site.

---

3 Areas that provide unique and often protected habitat for wildlife species. These areas are typically used during critical life stages such as breeding, hatching, rearing of young and overwintering. Refer to **Table 1** at the end of this document for examples of sensitive environments.

2. Are any areas on or near (i.e., within 0.5 miles) the site which are owned or used by local tribes? If yes, describe. *Contact the Tribal Liason in the Office of the Secretary (505)827-2855 to obtain this information.* No.

3 Does the site serve or potentially serve as a habitat, foraging area, or refuge by rare, threatened, endangered, candidate and/or proposed species (plants or animals), or any otherwise protected species? If yes, identify species. *This information should be obtained from the U.S. Fish and Wildlife Service and appropriate State of New Mexico division.* No. The latest lists of State and Federal species of concern, candidate, threatened, and endangered species were consulted. Resource experts familiar with the sites confirmed that none of these species utilize the habitats at or adjacent to the Site.

4 Is the site potentially used as a breeding, roosting or feeding area by migratory bird species? If yes, identify which species. Yes. There are hundreds of species of migrating birds that may potentially roost or feed at or near the Site. Several species of birds may nest near the Site including Say's phoebe and mourning dove.

5 Is the site used by any ecologically[3], recreationally, or commercially important species? If yes, explain. The site is frequented by recreationally important species (hunted) such as Oryx, mule deer, and quail, however, this site is located on the Main Post area of WSMR where no hunting is allowed.

3 Ecologically important species include populations of species which provide a critical (i.e., not replaceable) food resource for higher organisms and whose function as such would not be replaced by more tolerant species; or perform a critical ecological function (such as organic matter decomposition) and whose functions will not be replaced by other species. Ecologically important species include pest and opportunistic species that populate an area if they serve as a food source for other species, but do not include domesticated animals (e.g., pets and livestock) or plants/animals whose existence is maintained by continuous human interventions (e.g., fish hatcheries, agricultural crops, etc.,)

IV. EXPOSURE PATHWAY EVALUATION

1. Do existing data provide sufficient information on the nature, rate, and extent of contamination at the site?

   X Yes
   ❑ No
   ❑ Uncertain

   Please provide an explanation for your answer:_____
   Confirmation sample results indicate that no contaminants of concern are still present on site. See the Main Post Phase III RFI (report to which this SLERA is attached) for a summary of investigations of this site.

2. Do existing data provide sufficient information on the nature, rate, and extent of contamination in offsite affected areas?

   X Yes
   ❑ No
   ❑ Uncertain
   X No offsite contamination

   Please provide an explanation for your answer:_____
   The RFI investigations indicated that contamination (prior to removal) was confined to the immediate area of the former pesticide storage shed. See the Main Post Phase III RFI (report to which this SLERA is attached) for a summary of investigations of this site.

3. Do existing data address potential migration pathways of contaminants at the site?

   X Yes
   ❑ No
   ❑ Uncertain

   Please provide an explanation for your answer:_____
   _____
   Confirmation sampling results indicate no contamination present on site following remediation in 1996. See the Main Post Phase III RFI (report to which this SLERA is attached) for a summary of investigations of this site.

4. Do existing data address potential migration pathways of contaminants in offsite affected areas?

X Yes
❑ No
❑ Uncertain
X No offsite contamination

Please provide an explanation for your answer:_____

The RFI investigations indicated that contamination (prior to removal) was confined to the immediate area of the former pesticide storage shed. See the Main Post Phase III RFI (report to which this SLERA is attached) for a summary of investigations of this site.

5. Are there visible indications of stressed habitats or receptors on or near (i.e., within 0.5 miles) the site that may be the result of a chemical release? If yes, explain. Attach photographs if available.

_____

No. However, a recent site visit indicated that the area had undergone a WSMR prescribed burn. See attached photo.

6. Is the location of the contamination such that receptors might be reasonably expected to come into contact with it? For soil, this means contamination in the soil 0 to 5 feet below ground surface (bgs). If yes, explain.

_____

No. Confirmation sampling results indicate no contamination present on site following remediation in 1996. See the Main Post Phase III RFI (report to which this SLERA is attached) for a summary of investigations of this site.

7. Are receptors located in or using habitats where chemicals exist in air, soil, sediment or surface water? If yes, explain.
No.

8. Could chemicals reach receptors via groundwater? Can chemicals leach or dissolve to groundwater? Are chemicals mobile in groundwater? Does groundwater discharge into receptor habitats? If yes, explain.

_____

No. Confirmation sample results indicate the contamination was removed in 1996. Additionally, depth to ground-water in this area is greater than 250 ft bgs.

9. Could chemicals reach receptors through runoff or erosion? Answer the following questions:

What is the approximate distance from the contaminated area to the nearest watercourse or arroyo?

- ❑ 0 feet (i.e., contamination has reached a watercourse or arroyo)
- ❑ 1-10 feet
- ❑ 11-20 feet
- ❑ 21-50 feet
- ❑ 51-100 feet
- ❑ 101-200 feet
- ❑ > 200 feet
- ❑ > 500 feet
- X > 1000 feet

What is the slope of the ground in the contaminated area?

- X 0-10%
- ❑ 10-30%
- ❑ > 30%

What is the approximate amount of ground and canopy vegetative cover in the contaminated area?

- X < 25%
- ❑ 25-75%
- ❑ > 75%

Is there visible evidence of erosion (e.g., a rill or gully) in or near the contaminated area?

- ❑ Yes
- X No
- ❑ Do not know

Do any structures, pavement, or natural drainage features direct run-on flow (i.e., surface flows originating upstream or uphill from the area of concern) into the contaminated area?

- ❑ Yes
- X No
- ❑ Do not know

10. Could chemicals reach receptors through the dispersion of contaminants in air (e.g., volatilization, vapors, fugitive dust)? If yes, explain.

No. Confirmation sample results indicate the contamination was removed in 1996.

11. Could chemicals reach receptors through migration of non-aqueous phase liquids (NAPLs)? Is a NAPL present at the site that might be migrating towards receptors or habitats? Could NAPL discharge contact receptors or their habitat?

No NAPLs are present at the site.

12. Could receptors be impacted by external irradiation at the site? Are gamma emitting radionuclides present at the site? Is the radionuclide contamination buried or at the surface?

No. No radionuclide contamination is expected to be present at the site.

PHOTOGRAPHIC DOCUMENTATION

During the site visit(s), photographs should be taken to document the current conditions at the site and to support the information entered in the checklist. For example, photographs may be used to document the following:

- The nature, quality, and distribution of vegetation at the site
- Receptors or evidence of receptors
- Potentially important ecological features, such as ponds and drainage ditches
- Potential exposure pathways
- Any evidence of contamination or impact

The following space may be used to record photo subjects.

Photograph showing the site of the Former Pesticide Storage Shed.

SUMMARY OF OBSERVATIONS AND SITE SETTING

Include information on significant source areas and migration pathways that are likely to constitute complete exposure pathways.

This site is located just south of the WSMR Main Post at the WSMR golf course. The area lies along the edge of the Organ Mountains lower bajada. Surrounding vegetation is comprised of typical lower bajada species dominated by honey mesquite (*Prosopus glandulosa*). This site has recently been burned as part of the WSMR golf course prescribed burn project. Species of vegetation at the site are consistent with those associated with relatively recently disturbed soils and is currently dominated by purple scorpionweed (*Phacelia neomexicana*) and narrowleaf pepperweed (*Lepidium alyssoides*). There are no concerns for listed threatened or endangered species or sensitive habitats at this site.

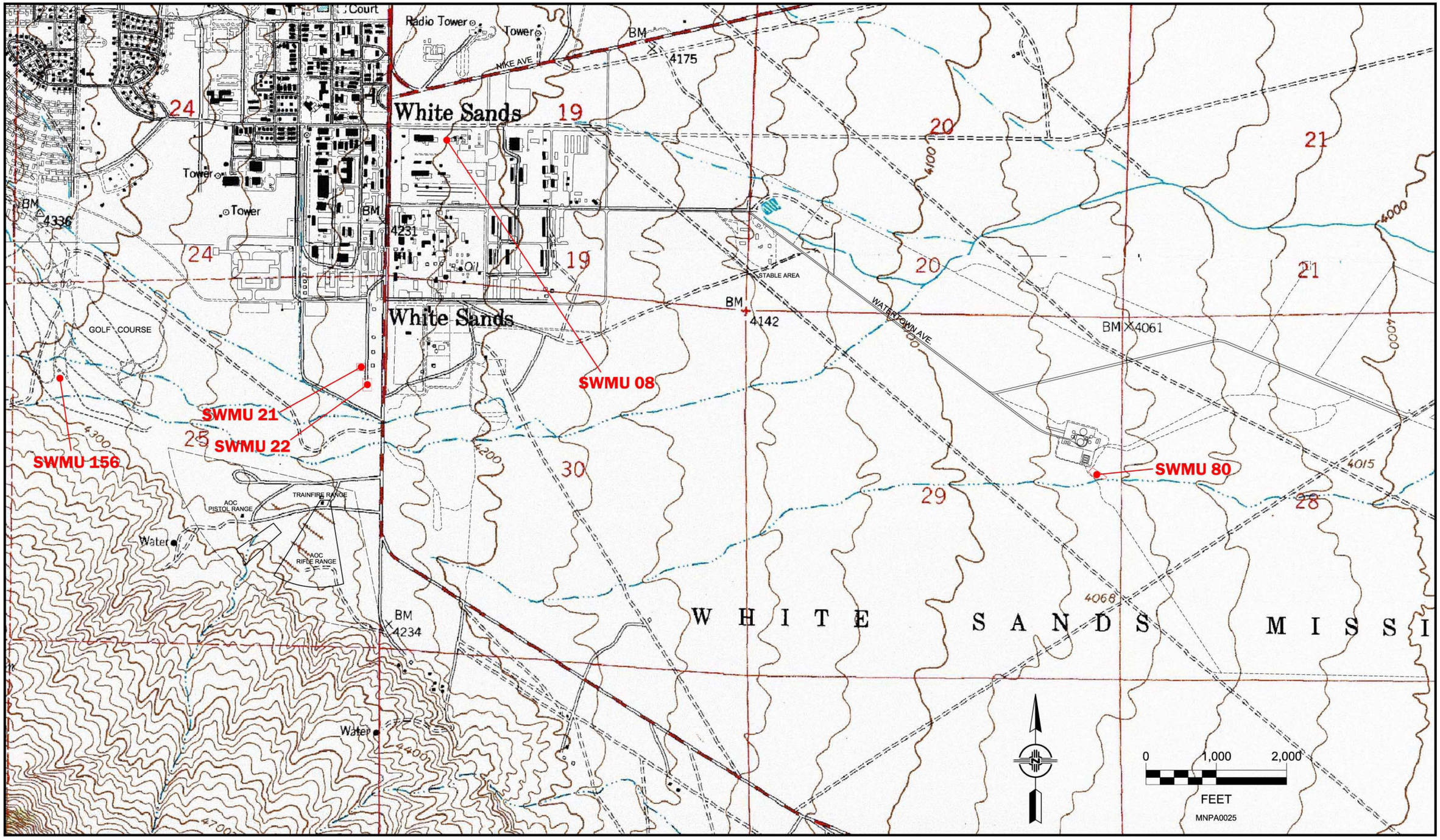
A complete exposure pathway for SWMU 156 does not exist. The source (pesticide storage shed) and contaminated soil was removed in 1996. Confirmation samples show the source contamination was removed. A PCSEM was not completed for this site.

Checklist Completed by: Bradley Davis

Affiliation: White Sands Technical Services

Author Assisted by: Doug Burkett

Date: 9 August 2005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SWMU 21
SWMU 22
SWMU 156
SWMU 80
White Sands
White Sands
WHITE SANDS MISSI
Radio Tower
Tower
Tower
Tower
Court
NIKE AVE
WATERTOWN AVE
STABLE AREA
GOLF COURSE
TRAINFIRE RANGE
AOC PISTOL RANGE
AOC RIFLE RANGE
Water
Water
BM 4175
BM 4336
BM 4231
BM 4142
BM 4061
BM 4234
4100
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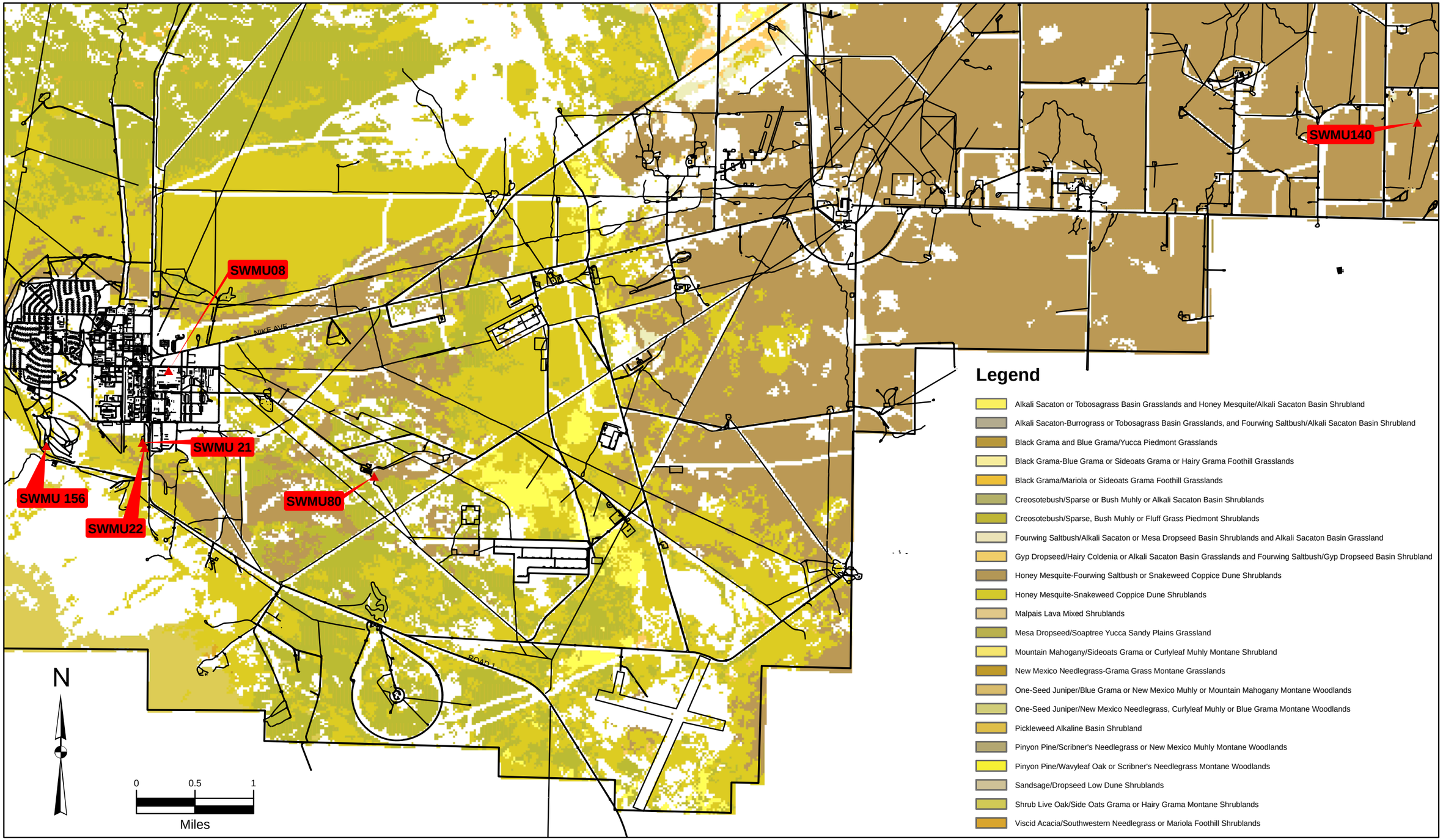

SWMU08
SWMU140
SWMU 21
SWMU 156
SWMU22
SWMU80
NIKE AVE
ROAD 1
N
0
0.5
1
Miles
Legend
Alkali Sacaton or Tobosagrass Basin Grasslands and Honey Mesquite/Alkali Sacaton Basin Shrubland
Alkali Sacaton-Burrograss or Tobosagrass Basin Grasslands, and Fourwing Saltbush/Alkali Sacaton Basin Shrubland
Black Grama and Blue Grama/Yucca Piedmont Grasslands
Black Grama-Blue Grama or Sideoats Grama or Hairy Grama Foothill Grasslands
Black Grama/Mariola or Sideoats Grama Foothill Grasslands
Creosotebush/Sparse or Bush Muhly or Alkali Sacaton Basin Shrublands
Creosotebush/Sparse, Bush Muhly or Fluff Grass Piedmont Shrublands
Fourwing Saltbush/Alkali Sacaton or Mesa Dropseed Basin Shrublands and Alkali Sacaton Basin Grassland
Gyp Dropseed/Hairy Coldenia or Alkali Sacaton Basin Grasslands and Fourwing Saltbush/Gyp Dropseed Basin Shrubland
Honey Mesquite-Fourwing Saltbush or Snakeweed Coppice Dune Shrublands
Honey Mesquite-Snakeweed Coppice Dune Shrublands
Malpais Lava Mixed Shrublands
Mesa Dropseed/Soaptree Yucca Sandy Plains Grassland
Mountain Mahogany/Sideoats Grama or Curlyleaf Muhly Montane Shrubland
New Mexico Needlegrass-Grama Grass Montane Grasslands
One-Seed Juniper/Blue Grama or New Mexico Muhly or Mountain Mahogany Montane Woodlands
One-Seed Juniper/New Mexico Needlegrass, Curlyleaf Muhly or Blue Grama Montane Woodlands
Pickleweed Alkaline Basin Shrubland
Pinyon Pine/Scribner's Needlegrass or New Mexico Muhly Montane Woodlands
Pinyon Pine/Wavyleaf Oak or Scribner's Needlegrass Montane Woodlands
Sandsage/Dropseed Low Dune Shrublands
Shrub Live Oak/Side Oats Grama or Hairy Grama Montane Shrublands
Viscid Acacia/Southwestern Needlegrass or Mariola Foothill Shrublands

SWMU 156 Desert Map

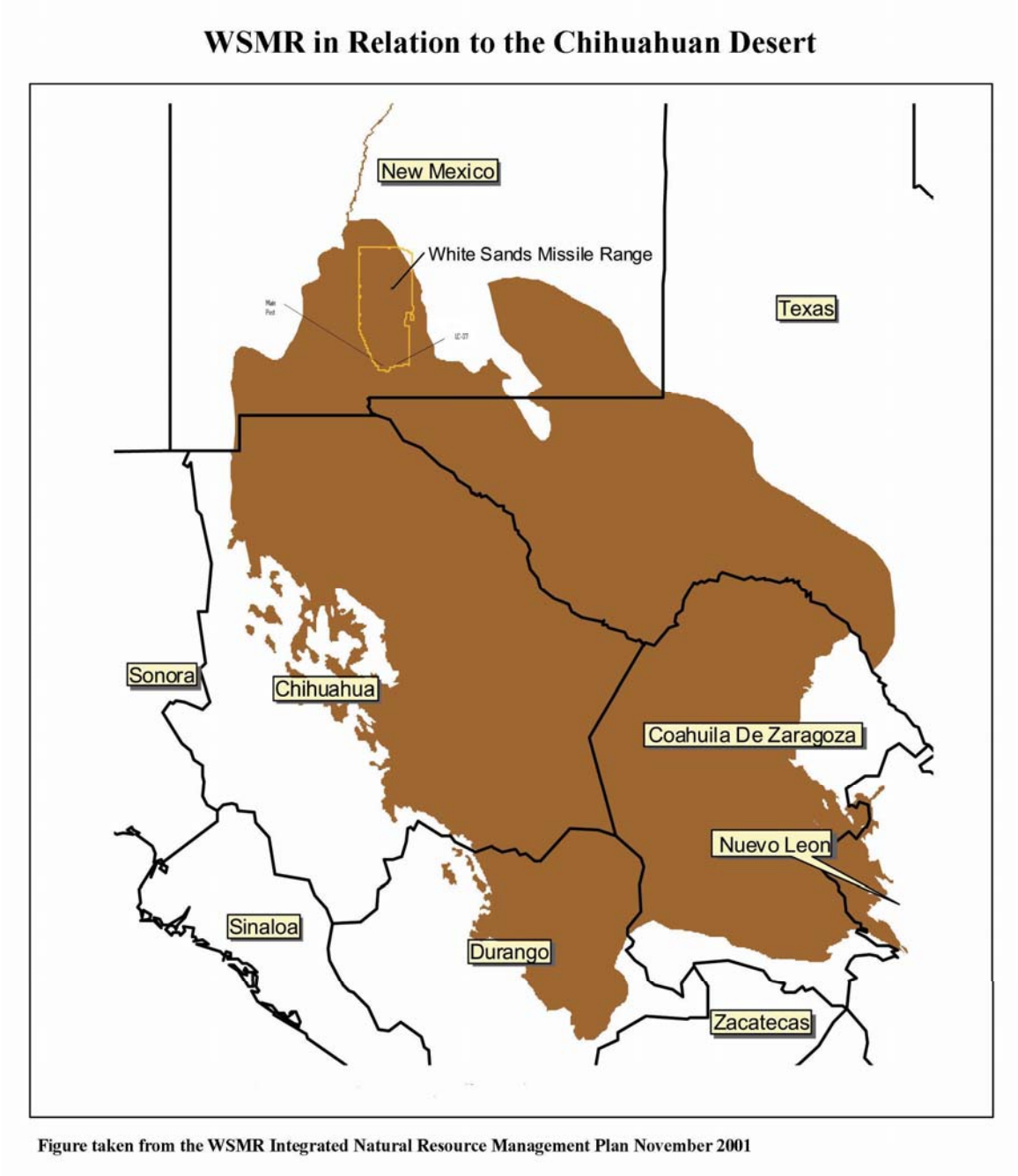
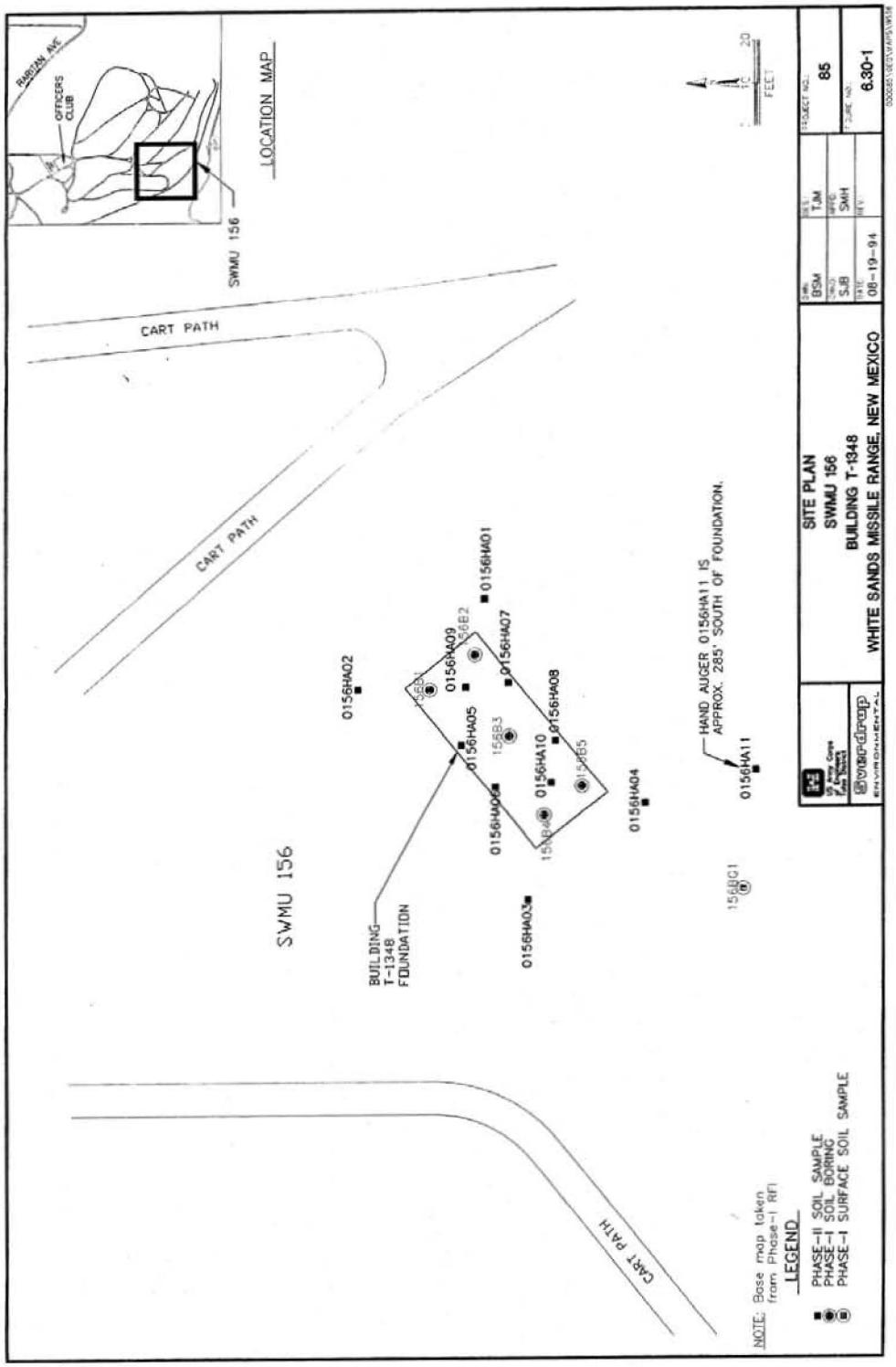


Figure taken from the WSMR Integrated Natural Resource Management Plan November 2001



SWMU 156 Site Map. Phase I and II RFI Sample Locations.

TABLE 1
EXAMPLES OF SENSITIVE ENVIRONMENTS

National Parks and National Monuments

Designated or Administratively Proposed Federal Wilderness Areas

National Preserves

National or State Wildlife Refuges

National Lakeshore Recreational Areas

Federal land designated for protection of natural ecosystems

State land designated for wildlife or game management

State designated Natural Areas

Federal or state designated Scenic or Wild River

All areas that provide or could potentially provide critical habitat[1] for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern

All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes

All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)

All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)

---

1 Critical habitats are defined by the Endangered Species Act (50 CFR §424.02(d)) as:

1) Specific areas within the geographical area currently occupied by a species, at the time it is listed in accordance with the Act, on which are found those physical or biological features (I) essential to the conservation of the species and (ii) that may require special management considerations or protection, and 2) Specific areas outside the geographical area occupied by a species at the time it is listed upon a determination by the Secretary [of Interior] that such areas are essential for the conservation of the species.

All areas that provide or could potentially provide habitat for song birds as protected by the State of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)

All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the State of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)

All areas that provide or could potentially provide habitat for horned toads and Bullfrogs as protected by the State of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, resp.)

All perennial waters (e.g., rivers, lakes, playas, sloughs, ponds, etc)

All ephemeral drainage (e.g., arroyos, puddles/pools, intermittent streams, etc) that provide significant wildlife habitat or that could potentially transport contaminants off site to areas that provide wildlife habitat

All riparian habitats

All perennial and ephemeral wetlands (not limited to jurisdictional wetlands)

All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle.

ECOLOGICAL SITE EXCLUSION CRITERIA CHECKLIST AND DECISION TREE

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **No.**

   - National Park or National Monument
   - Designated or administratively proposed Federal Wilderness Area
   - National Preserve
   - National or State Wildlife Refuge
   - Federal or State land designated for wildlife or game management
   - State designated Natural Areas
   - All areas that are owned or used by local tribes
   - All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle
   - All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern
   - All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
   - All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
   - All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
   - All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)

---

1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats: **Yes.**

- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are not considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **Yes.**

II. Receptors

1. Is any part of the affected property used for habitat, foraging area, or refuge by any rare, threatened, or endangered species (plant *or* animal), or otherwise protected species (e.g., raptors, migratory birds)? **No.**

2. Is any part of the affected property used for habitat, foraging area, or refuge by any species used as a recreational (e.g., game animals) and/or commercial resource? **Yes.**

3. Is any part of the affected property used for habitat, foraging area, or refuge by any plant or animal species? This includes plants considered "weeds" and opportunistic insect and animal species (such as cockroaches and rats) if they are used as a food source for other species in the area. **Yes.**

III. Exposure Pathways

1. Could receptors be impacted by contaminants via direct contact?

   Is a receptor located in or using an area where it could contact contaminated air, soil[3], or surface water? **No contaminated soil left on site following the 1996 removal action.**

For Questions 2 and 3, note that one must answer "yes" to all three bullets in order to be directed to the "exclusion denied" box of the decision tree. This is because answering "no" to one of the questions in the bullet list indicates that a complete exposure pathway is not present. For example, in Question 2, if the chemical cannot leach or dissolve to groundwater (bullet 1), there is no chance of ecological receptors being exposed to the chemical through contact with contaminated groundwater. Similarly, the responses to the questions in Question 4 determine whether a complete pathway exists for exposure to NAPL.

2. Could receptors contact contaminants via groundwater?
   - Can the chemical leach or dissolve to groundwater[4]? **No. No contamination left on site. Additionally, depth to ground-water is greater than 250 ft bgs.**
   - Can groundwater mobilize the chemical? **No contamination left on site.**
   - Could (does) contaminated groundwater discharge into known or potential receptor habitats? **No.**

3. Could receptors contact contaminants via runoff (i.e., surface water and/or suspended sediment) or erosion by water or wind?
   - Are chemicals present in surface soils? **No contamination on site.**
   - Can the chemical be leached from or eroded with surface soils? **No contamination on site.**
   - Is there a receptor habitat located downgradient of the leached/eroded surface soil? **No contamination on site.**

---

3 For soil, this means contamination less than 5 feet below ground surface (bgs).

4 Information on the environmental fate of specific chemicals can be found on the Internet at *http://www.epa.gov/opptintr/chemfact/* or at a local library in published copies of the *Hazardous Substances Data Bank*.

4. Could receptors contact contaminants via migration of non-aqueous phase liquids (NAPL)?

No NAPLs are associated with this site.

- Is NAPL present at the site? **No.**
- Is NAPL migrating toward potential receptors or habitats?
- Could NAPL discharge impact receptors or habitats?

Figure 1 -Ecological Exclusion Criteria Decision Tree

(Refer to corresponding checklist for the full text of each question)

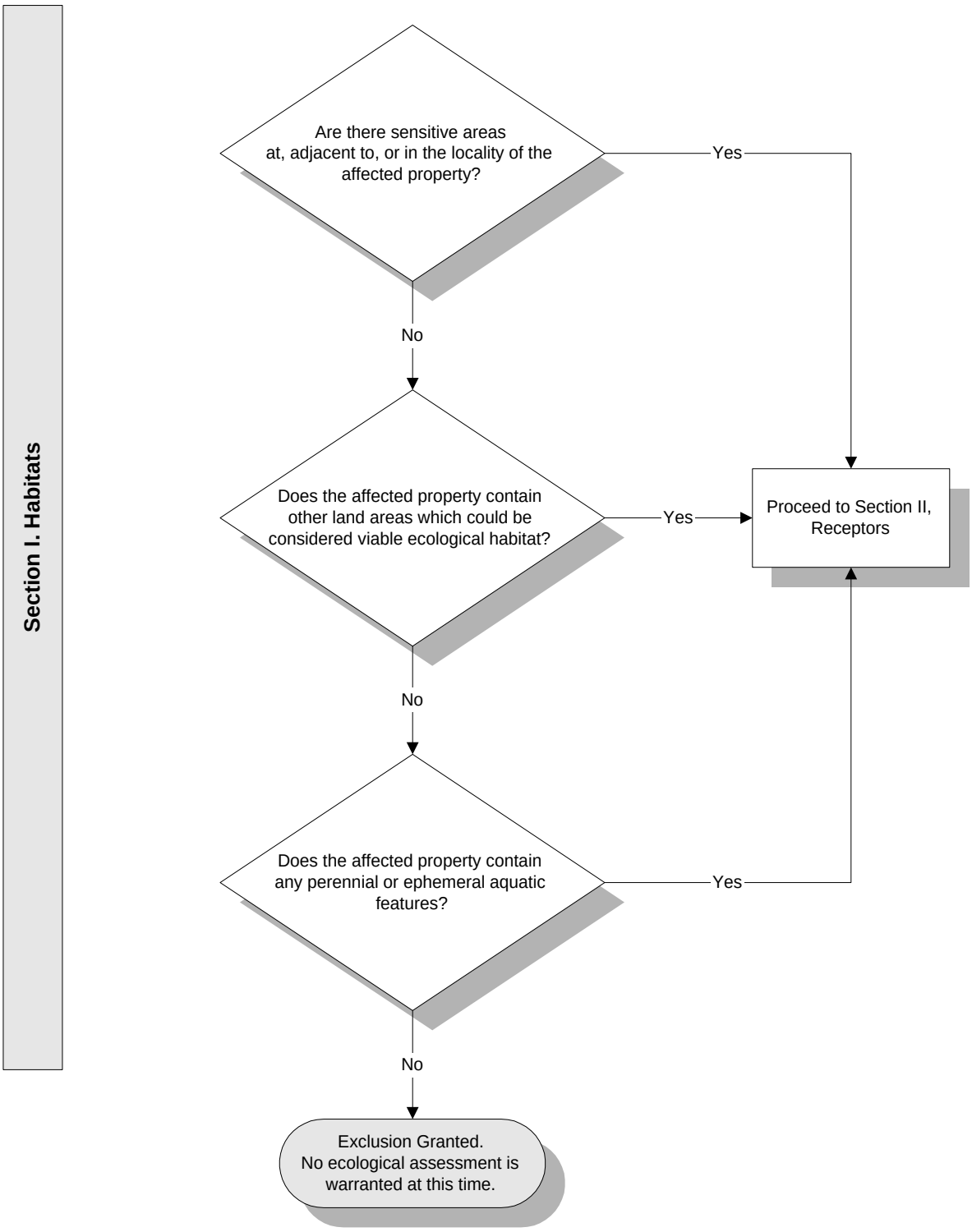


Figure 1 - Exclusion Criteria Decision Tree (continued)

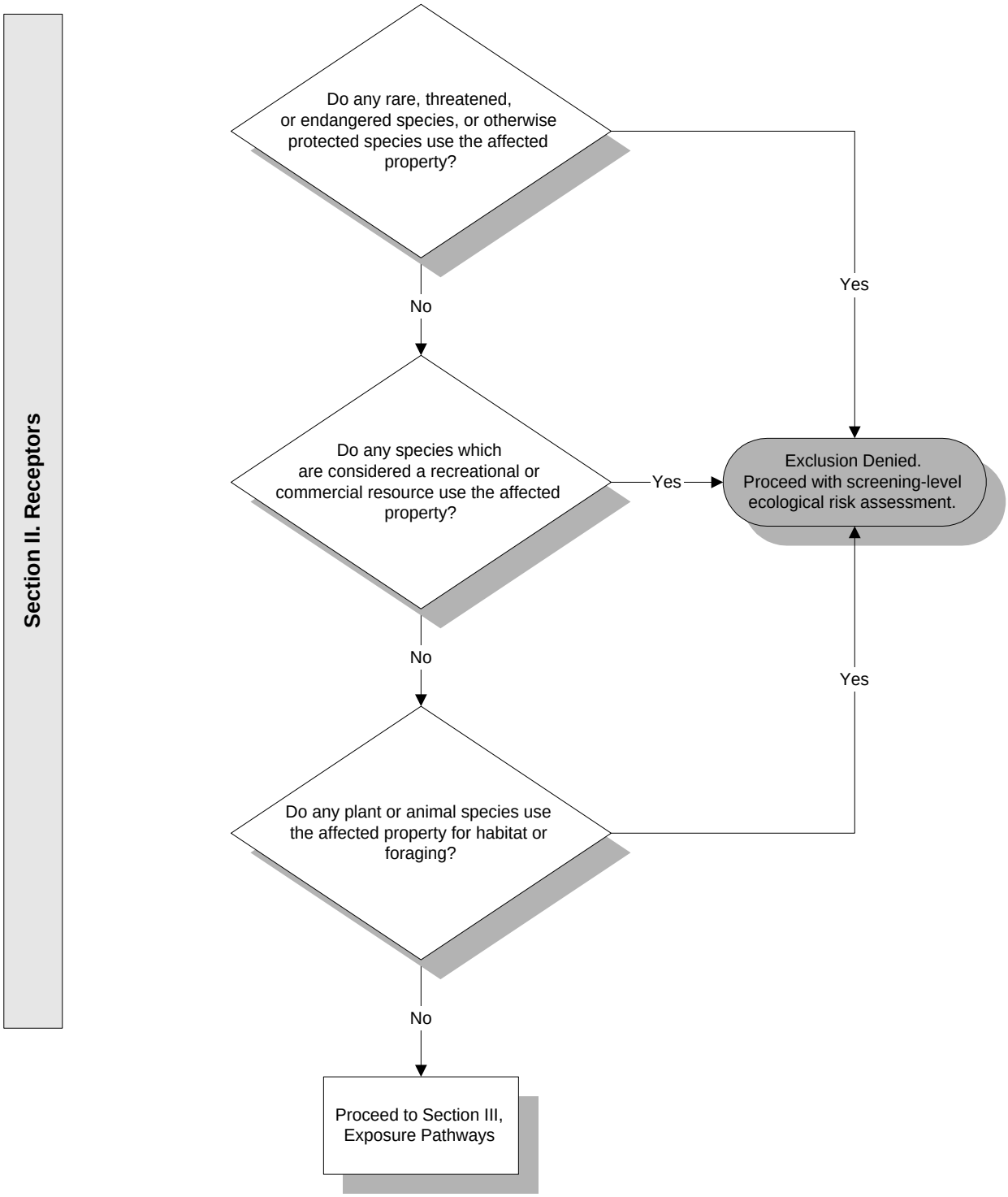
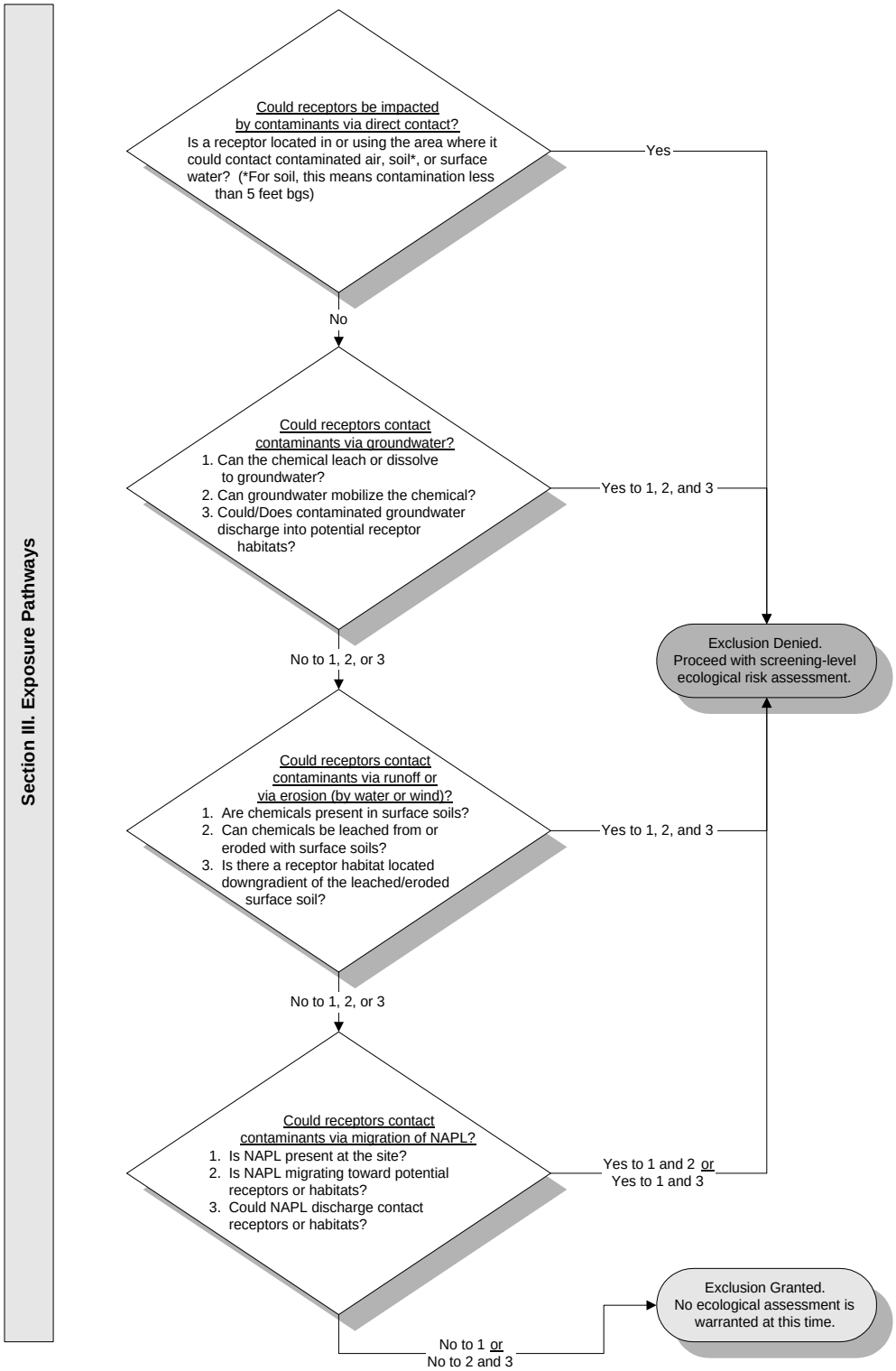


Figure 1 - Exclusion Criteria Decision Tree (continued)



Appendix C-4
SWMU 156 (WSMR-57):
2008 NMED Approval of Phase III RFI Report

ENTERED

NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303
Phone (505) 476-6000 Fax (505) 476-6030
www.nmenv.state.nm.us

BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 7, 2008

Thomas A. Ladd, Director
Environment and Safety Directorate
U.S. Army White Sands Missile Range
White Sands Missile Range,
New Mexico 88002-5000

RE: APPROVAL WITH CONDITIONS
PHASE III RCRA FACILITY INVESTIGATION REPORT
MAINPOST MULTIPLE SITE
(SWUS 8-17, 21, 22, 80, 140, AND, 156)
WHITE SANDS MISSILE RANGE, EPA ID NO. NM2750211235
HWB-WSMR-06-003

Dear Mr. Ladd:

The New Mexico Environment Department (NMED) has completed its review of the Department of the Army's (the Permittee) *Phase III RCRA Facility Investigation (RFI) Report Main Post Multiple Sites (SWMUs 8-17, 21, 22, 80, 140, and 156)*, dated May 2006 and the Permittee's response, dated October 7, 2008. NMED hereby approves the Report with conditions listed below. The Permittee must submit the additional information by January 23, 2009.

CONDITION 1 (NOD COMMENT 3)
As noted in the response Permittee's to Comment 3, Table 28 contains the highest concentration detected at each exposure depth for the various receptors. However, for solid waste management unit (SWMU) 21, it is still unclear how the maximum detected concentrations were determined.

For the residential scenario, the datum of 27.1 milligrams per kilogram (mg/kg) was excluded as an outlier (see COMMENT 2 below) and a datum of 9.01 mg/kg (from sample SS-01 Table 8) was applied. The Permittee must explain why the datum of 9.5 mg/kg (sample SS-03 Table 8) was not applied as the maximum detected concentration.

For the construction worker scenario, an exposure to soil up to a depth of 10 feet below ground surface and a datum of 9.01 mg/kg was applied. It is not clear why the datum of 10.3 mg (sample DB-004, Table 8) was not applied.

The Permittee must provide additional clarification on the data provided in Tables 8 and 28 and how the exposure point concentrations (EPCs) and/or maximum detections were applied.

CONDITION 2 (NOD COMMENT 4)
The baseline risk assessment for SWMU 21 was based upon two EPCs. One EPC was based upon an assumption that the arsenic detection of 27.1 mg/kg was an outlier and the second EPC included this same datum as part of the data set. The response from the Permittee concurs with NMED that the datum of 27.1 mg/kg may not be an outlier. Without additional data for arsenic at SWMU 21, there is not sufficient evidence to exclude this datum. Therefore, risk management should be based upon the resulting risk calculated based on an EPC that includes the 27.1 mg/kg datum, which resulted in a risk of 1.87E-05.

Because the resulting risk is above the target risk level for residential release (1.00E-05), and due to uncertainty concerning arsenic levels at the site, the Permittee must either propose additional investigations to evaluate for the presence of arsenic. Alternately the site may qualify for a corrective action complete with controls determination if an industrial risk level can be achieved.

CONDITION 3
The Permittee must submit a summary table be included in Section 5 that clearly indicates what EPCs were actually used in determining the risks associated with the baseline risk assessment.

The Permittee must address the conditions included in this letter no later than December 31, 2008. If the required information is not provided by the specified submittal date, this Approval will be automatically rescinded. If you have any questions please contact Cheryl Frischkorn of my staff at (505) 476-6058.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

Appendix D-1
SWMU 163 (WSMR-72):
1994 Trench Sampling Record

STEWS-MTD-AA (70)

MEMORANDUM FOR ES-E, ATTN: Mr. Magallanes

SUBJECT: Soil Analysis

1. Responding to your request, White Sands Missile Range (WSMR) Test Support Division analyzed three soil samples in accordance with the U.S. Environmental Protection Agency (USEPA) Test Method 1311: Toxicity Characteristics Leaching Procedure (TCLP), three soil samples in accordance with USEPA Test Method 6010: Inductively Coupled Plasma Atomic Emission Spectroscopy, and two soils samples for the presence of Halogenated Organics. These analyses were performed to ascertain the presence of hazardous constituents. The samples were collected and delivered to the Chemistry Laboratory by Environmental Services.

2. Sample identification and specific analysis criteria are listed in enclosure 1. The results are listed in enclosures 2-18.

3. All metals analyzed for, with the exception of Lead, are below the TCLP regulatory levels at which waste is considered hazardous. Chemical Log Number 478 is above the listed TCLP regulatory level of 5 milligrams per Liter (mg/L) for Lead. The Lead concentration was 37.3 mg/L. Chemical Log Number's: 480, 482 below the TCLP regulatory level for Lead. A Total Lead level of 1.6 percent by weight was seen for Chemical Log number 478. No halogenated organics were detected for the samples analyzed.

4. Point of contact is Mr. Milton Carter, 678-4733.

18 Encls

ANDRUS GARAY
Chief, Applied Envr Test Branch

SAMPLE IDENTIFICATION

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	ANALYTICAL METHODOLOGY
478	SOIL-COMM I, 9 AUG	TEST METHOD 1311
479	SOIL-COMM II, 9 AUG	TEST METHOD 6010
480	SOIL-COMM III, 9 AUG	TEST METHOD 1311
481	SOIL-COMM IV, 9 AUG	TEST METHOD 6010
482	SOIL-COMM V, 9 AUG	TEST METHOD 1311
483	SOIL-COMM VI, 9 AUG	TEST METHOD 6010
484	SOIL-COMM VII, 9 AUG	HALOGENATED ORGANICS
485	SOIL-COMM VIII, 9 AUG	HALOGENATED ORGANICS

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

ARSENIC

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	<2
480	SOIL - COMM III	<2
482	SOIL - COMM V	<2

** METHOD DETECTION LIMIT = 2 mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

BARIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	<5
480	SOIL - COMM III	<5
482	SOIL - COMM V	<5

** METHOD DETECTION LIMIT = 5 mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

CADMIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	<1
480	SOIL - COMM III	<1
482	SOIL - COMM V	<1

** METHOD DETECTION LIMIT = 1 mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

CHROMIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	<2
480	SOIL - COMM III	<2
482	SOIL - COMM V	<2

** METHOD DETECTION LIMIT = 2 mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

LEAD

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	37
480	SOIL - COMM III	<2
482	SOIL - COMM V	2.4

** METHOD DETECTION LIMIT = 2 mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

MERCURY

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	<0.2
480	SOIL - COMM III	<0.2
482	SOIL - COMM V	<0.2

** METHOD DETECTION LIMIT = 0.2 mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

SELENIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	<1
480	SOIL - COMM III	<1
482	SOIL - COMM V	<1

** METHOD DETECTION LIMIT = 1 mg/L

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

SILVER

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Liter
478	SOIL - COMM I	<2
480	SOIL - COMM III	<2
482	SOIL - COMM V	<2

** METHOD DETECTION LIMIT = 2 mg/L

TOTAL ARSENIC

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	<2	---
481	SOIL - COMM IV	<2	---
483	SOIL - COMM VI	<2	---

** METHOD DETECTION LIMIT = 2 mg/kg

TOTAL BARIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	131	0.013
481	SOIL - COMM IV	65	0.007
483	SOIL - COMM VI	42	0.004

** METHOD DETECTION LIMIT = 5 mg/kg

TOTAL CADMIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	<1	---
481	SOIL - COMM IV	<1	---
483	SOIL - COMM VI	<1	---

** METHOD DETECTION LIMIT = 1 mg/kg

TOTAL CHROMIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	<2	---
481	SOIL - COMM IV	<2	---
483	SOIL - COMM VI	5.7	0.0006

** METHOD DETECTION LIMIT = 2 mg/kg

TOTAL LEAD

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	16200	1.6
481	SOIL - COMM IV	340	0.03
483	SOIL - COMM VI	61	0.006

** METHOD DETECTION LIMIT = 2 mg/kg

TOTAL MERCURY

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	<0.2	---
481	SOIL - COMM IV	<0.2	---
483	SOIL - COMM VI	<0.2	---

** METHOD DETECTION LIMIT = 0.2 mg/kg

TOTAL SELENIUM

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	<1	---
481	SOIL - COMM IV	<1	---
483	SOIL - COMM VI	<1	---

** METHOD DETECTION LIMIT = 1 mg/kg

TOTAL SILVER

CHEMICAL LOG NUMBER	SAMPLE IDENTIFICATION	METAL CONCENTRATION, Milligrams per Kilograms	WEIGHT PERCENT (%)
479	SOIL - COMM II	<2	---
481	SOIL - COMM IV	<2	---
483	SOIL - COMM VI	<2	---

** METHOD DETECTION LIMIT = 2 mg/kg

HALOGENATED ORGANICS

CHEMICAL LOG NUMBER	CONCENTRATION, Parts per Million				
	TFF	DCM	TCA	TCE	PCE
484	<0.05	<0.10	<0.002	<0.004	<0.002
485	<0.05	<0.10	<0.002	<0.004	<0.002
DETECTION LIMIT	0.05	0.10	0.002	0.004	0.002

**TFF = Freon 113
DCM = Methylene Chloride
TCA = 1,1,1 - Trichloroethane
TCE = Trichloroethylene
PCE = Perchloroethylene

Appendix D-2
SWMU 163 (WSMR-72):
1994 Confirmatory Sampling Data Package

APPENDIX F

ANALYTICAL RESULTS AND CHAIN OF CUSTODY

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CHAIN OF CUSTODY RECORD

Page 1 of 1

CLIENT: ASI/WSMR	ADDRESS: 555 SOUTH TELSHOR
CONTACT PERSON: GARY JORDAN	LAS CRUCES NM 88011
TELEPHONE: (505) 522-7229	PROJECT: WSMR COMMISSARY / JOB ~~/P.O. NO.~~: 600-11
FAX: (505) 522-7014	WESTECH QUOTE / CONTRACT NO.

• SEE FEE SCHEDULE •

SAMPLER (SIGNATURE): George Esquedra
(PRINT NAME): GEORGE ESQUEDA

SAMPLE TYPE CODES: S - SOIL, O - OIL, G - SLUDGE, D - DRINKING WATER, W - WASTEWATER, T - TRAVEL BLANK, F - FIELD BLANK, X - OTHER (SPECIFY): _____

SAMPLE/COOLER TEMPERATURE:

SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE LOCATION	NO. CONTAINERS	COMPOSITE	GRAB	SAMPLE TYPE	Unpreserved	HNO_3	NaOH	H_2SO_4	HCl	(Do Not Analyze) HOLD	6010 Pb, Pd + Barium	8260 Vol. Organics	8270 Semi Vol Org.	8080 Pest. + PCB's	8150 Herbicides				COMMENTS	LABORATORY IDENTIFICATION
CLT-1	9/26/94	1515	50' SOUTH OF NORTH HIGH WALL				S							✓	✓	✓	✓	✓				FAST TURN	6404433
CLT-2S	9/26/94	1530	75' SOUTH OF NHW				S							✓	✓	✓	—	—				"	6404434
CLT-3	9/26/94	1545	100' South OF NHW				S							—	—	—	—	—				"	6404435
CLT-4	9/27/94	945	120' " " "				S							✓	✓	✓	✓	✓				"	6404436
CLT-5	9/27/94	1000	140' " " "				S							✓	✓	✓	✓	✓				"	6404437
CLT-6S	9/27/94	1015	130' " " "				S							✓	✓	✓	✓	✓				"	6404438
BG-1S	9/27/94	1100	BG SOUTH OF TRENCH				S							✓								"	6404439
BG-2N	9/27/94	1110	" NORTH OF TRENCH				S							✓								"	6404440

GLT

RELINQUISHED BY (SIGNATURE)	PRINT NAME	RECEIVED BY (SIGNATURE)	PRINT NAME	DATE / TIME
Gary Jordan	GARY JORDAN	[signature]		17:00 9-27-94

REMARKS: GO/O BY 9/30/94 ALL SAMPLES

☐ Fax Results ☐ Special Detection Limits / Requirements

SAMPLE PROCESS TURNAROUND TIME: ☐ Standard ☒ Other (specify) PER QUOTE

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El Paso • 10737 Gateway West, No. 100 • TX 79935 • (915) 592-3591

CHAIN OF CUSTODY RECORD

CLIENT: ASI/WSMA	ADDRESS: 555 S. TELSHOR
CONTACT PERSON: GARY JORDAN	LAS CRUCES NM
TELEPHONE: 505 522-7229	PROJECT: WSMA Comm. TRENCH / JOB ~~P.O. NO.~~: 600-11
FAX: 505 522-7014	WESTECH QUOTE / CONTRACT NO.

• SEE FEE SCHEDULE •

SAMPLER (SIGNATURE): George Esqueda
(PRINT NAME): GEORGE ESQUEDA

SAMPLE TYPE CODES: S - SOIL, O - OIL, G - SLUDGE, D - DRINKING WATER, W - WASTEWATER, T - TRAVEL BLANK, F - FIELD BLANK, X - OTHER (SPECIFY): _____

SAMPLE/COOLER TEMPERATURE:

SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE LOCATION	NO. CONTAINERS	COMPOSITE	GRAB	SAMPLE TYPE	Unpreserved	HNO_3	NaOH	H_2SO_4	HCl	(Do Not Analyze) HOLD	6010 METALS	VOLATILE	SEMI VOLATILE	PEST & PCB	HERB.	COMMENTS	LABORATORY IDENTIFICATION
CLT-7	9/28	1215	WSMA Comm. TRENCH				S							✓	✓	✓	✓	✓	FAST TURN	6404465
CLT-8		1230	" " "				S							✓	✓	✓	✓			6404466
CLT-9		1230	" " "				S							✓	✓	✓	✓			6404467
CLT-10		1230	" " "				S							✓	✓	✓	✓			6404468
CLT-11S		1310	" " "				S							✓	✓	✓	✓			6404469
CLT-12S		1315	" " "				S							✓	✓	✓	✓			6404470
CLT-13S		1315	" " "				S							✓	✓	✓	✓	✓		6404471
CLT-14S		1320	" " "				S							✓	✓	✓	✓	✓		6404472

RELINQUISHED BY (SIGNATURE)	PRINT NAME	RECEIVED BY (SIGNATURE)	PRINT NAME	DATE / TIME
Gary Jordan	GARY JORDAN	[signature]		9-28-94 16:13

REMARKS _____

☐ Fax Results ☐ Special Detection Limits / Requirements

SAMPLE PROCESS TURNAROUND TIME:
☐ Standard ☒ Other (specify) PER QUOTE

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El Paso • 10737 Gateway West, No. 100 • TX 79935 • (915) 592-3591

CHAIN OF CUSTODY RECORD

CLIENT	ADDRESS	
ASI/WSMR	555 S. TELSHOR	
CONTACT PERSON	LAS CRUCES NM 88011	
GARY JORDAN		
TELEPHONE	PROJECT	JOB/~~P.O. NO.~~
505 522-7229	WSMR COMM. TRENCH	600-11

• REFER TO FEE SCHEDULE FOR ANALYSIS SELECTION •

SAMPLER (SIGNATURE): George Esqueda
(PRINT NAME): GEORGE ESQUEDA

SAMPLE TYPE CODES: S - Soil, O - Oil, T - Travel Blank, W - Water, G - Sludge, F - Field Blank, X - Other (specify) _____

SAMPLE / COOLER TEMPERATURE:

SAMPLE IDENTIFICATION	DATE	TIME	SAMPLE LOCATION	COMPOSITE	GRAB	SAMPLE TYPE	NO. CONTAINERS W/ PRESERVATIVES: Unpreserved	HNO_3	NaOH	H_2SO_4	HCl	(Do Not Analyze) HOLD	REQUESTED ANALYSES: METAL PP4 Barium	VOLATILE ORG.	SEMI VOLATILE ORG.	PCB & HERB.	PESTICIDES	COMMENTS	LABORATORY IDENTIFICATION
CLT-15	9/29/94	0940	Comm. TRENCH			S							✓	✓	✓	✓	✓	FAST TURN	6404487
CLT-16	"	0945	" "			S							✓	✓	—	—	—		6404488
CLT-17	"	0950	" "			S							✓	✓	✓	✓	✓		6404489
CLT-18	"	0955	" "			S							✓	✓	✓	✓	✓		6404490
CLT-19	"	1120	" "			S							✓	✓	✓	✓	✓		6404491
CLT-20	"	1130	" "			S							✓	✓	✓	✓	✓		6404492
CLT-21	"	1135	" "			S							✓	✓	✓	✓	✓		6404493
CLT-22	"	1140	" "			S							✓	✓	✓	✓	✓		6404494

RELINQUISHED BY (SIGNATURE)	PRINT NAME	RECEIVED BY (SIGNATURE)	PRINT NAME	DATE / TIME
Gary Jordan	GARY JORDAN	[signature]		9-29-94 16:54

REMARKS _____

SAMPLE PROCESS TURNAROUND TIME:
☐ Standard ☒ Other (specify) PER QUOTE

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404439
INVOICE NO.: 62141024
REPORT DATE: 09-28-94
REVIEWED BY: MB
PAGE : 1 OF 1

CLIENT SAMPLE ID : BG-1S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: BG South of Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.3	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	8.7	mg/Kg	2.5	09-28-94
Total Lead .....:	16	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	7.0	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	27	mg/Kg	2.5	09-28-94
Total Barium .....:	51	mg/Kg	10.0	09-28-94

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Annette S. Romia
Managing Director

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404440
INVOICE NO.: 62141024
REPORT DATE: 09-28-94
REVIEWED BY: AWS
PAGE : 1 OF 1

CLIENT SAMPLE ID : BG-2N
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: BG North of Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.96	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	10	mg/Kg	2.5	09-28-94
Total Lead .....:	14	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	8.0	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	32	mg/Kg	2.5	09-28-94
Total Barium .....:	56	mg/Kg	10.0	09-28-94

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Annette Skorna
Managing Director

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-1
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 50' South of North High W

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

REMARKS -

Poor spike recovery for selenium due to matrix interferences. 10X dilution showed 82% recovery on spike.

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.90	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	12	mg/Kg	2.5	09-30-94
Total Lead .....:	24	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	4.0	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	50	mg/Kg	2.5	09-30-94
Total Barium .....:	55	mg/Kg	10.0	09-28-94

(1) Copy to Client

Annette Skorma
Managing Director

Westech Laboratories Inc.
The Quality People
Since 1955

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El Paso, Texas 79935-4906
(915) 592-3591 • fax 592-3594

CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-2S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 75' South of NHW

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.61	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	8.0	mg/Kg	2.5	09-28-94
Total Lead .....:	<10.0	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	6.0	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	18	mg/Kg	2.5	09-28-94
Total Barium .....:	61	mg/Kg	10.0	09-28-94

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-3
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 100' South of NHW

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.1	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	24	mg/Kg	2.5	09-28-94
Total Lead .....:	25	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	7.0	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	83	mg/Kg	2.5	09-28-94
Total Barium .....:	66	mg/Kg	10.0	09-28-94

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CLIENT ADVANCED SCIENCES INC.
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SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: MB
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-4
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 120' South of NHW

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.86	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	19	mg/Kg	2.5	09-28-94
Total Lead .....:	34	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	13	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	89	mg/Kg	2.5	09-28-94
Total Barium .....:	81	mg/Kg	10.0	09-28-94

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SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: AR
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-5
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 140' South of NHW

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.2	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	18	mg/Kg	2.5	09-28-94
Total Lead .....:	22	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	8.0	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	73	mg/Kg	2.5	09-28-94
Total Barium .....:	53	mg/Kg	10.0	09-28-94

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SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: AB
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-6S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 130' South of NHW

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.58	mg/Kg	0.50	09-28-94
Total Antimony .....:	<0.50	mg/Kg	0.50	09-29-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-28-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-28-94
Total Copper .....:	8.0	mg/Kg	2.5	09-28-94
Total Lead .....:	13	mg/Kg	10.0	09-28-94
Total Mercury .....:	<0.50	mg/Kg	0.50	09-29-94
Total Nickel .....:	8.0	mg/Kg	2.5	09-28-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-28-94
Total Thallium .....:	<0.50	mg/Kg	0.50	09-28-94
Total Zinc .....:	30	mg/Kg	2.5	09-28-94
Total Barium .....:	48	mg/Kg	10.0	09-28-94

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SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-7
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.77	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	4.0	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	6.0	mg/kg	2.5	09-30-94
Total Lead .....:	15	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	7.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	21	mg/kg	2.5	09-30-94
Total Barium .....:	51	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-8
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.2	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	5.0	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	91	mg/kg	2.5	09-30-94
Total Lead .....:	33	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	8.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	47	mg/kg	2.5	09-30-94
Total Barium .....:	78	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-9
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.64	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	5.0	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	6.0	mg/kg	2.5	09-30-94
Total Lead .....:	18	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	6.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	27	mg/kg	2.5	09-30-94
Total Barium .....:	52	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-10
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.74	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	5.0	mg/kg	2.5	09-30-94
Total Lead .....:	17	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	6.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	25	mg/kg	2.5	09-30-94
Total Barium .....:	41	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-11S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.84	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	7.0	mg/kg	2.5	09-30-94
Total Lead .....:	17	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	6.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	4.0	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	29	mg/kg	2.5	09-30-94
Total Barium .....:	67	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-12S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.3	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	8.1	mg/kg	2.5	09-30-94
Total Lead .....:	20	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	9.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	30	mg/kg	2.5	09-30-94
Total Barium .....:	98	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-13S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.5	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	8.0	mg/kg	2.5	09-30-94
Total Lead .....:	19	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	9.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	31	mg/kg	2.5	09-30-94
Total Barium .....:	140	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-14S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.1	mg/kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/kg	5.0	09-30-94
Total Copper .....:	4.0	mg/kg	2.5	09-30-94
Total Lead .....:	16	mg/kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/kg	0.50	09-29-94
Total Nickel .....:	7.0	mg/kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/kg	0.50	10-01-94
Total Zinc .....:	21	mg/kg	2.5	09-30-94
Total Barium .....:	79	mg/Kg	10.0	10-01-94

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-15
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.3	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	11	mg/Kg	2.5	09-30-94
Total Lead .....:	53	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	9.0	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	34	mg/Kg	2.5	09-30-94
Total Barium .....:	76	mg/Kg	10.0	10-01-94

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-16
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.4	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	5.0	mg/Kg	2.5	09-30-94
Total Lead .....:	19	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	8.6	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	27	mg/Kg	2.5	09-30-94
Total Barium .....:	79	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-17
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.0	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	9.0	mg/Kg	2.5	09-30-94
Total Lead .....:	19	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	8.0	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	28	mg/Kg	2.5	09-30-94
Total Barium .....:	62	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-18
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.5	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	31	mg/Kg	2.5	09-30-94
Total Lead .....:	42	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	7.0	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	68	mg/Kg	2.5	09-30-94
Total Barium .....:	73	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-19
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	1.1	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	6.0	mg/Kg	2.5	09-30-94
Total Lead .....:	29	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	6.0	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	52	mg/Kg	2.5	09-30-94
Total Barium .....:	70	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-20
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.58	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	7.0	mg/Kg	2.5	09-30-94
Total Lead .....:	24	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	6.0	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	31	mg/Kg	2.5	09-30-94
Total Barium .....:	29	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-21
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.69	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	5.0	mg/Kg	2.5	09-30-94
Total Lead .....:	19	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	7.0	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	54	mg/Kg	2.5	09-30-94
Total Barium .....:	47	mg/Kg	10.0	10-01-94

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SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-22
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --

Priority Pollutants

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Arsenic .....:	0.59	mg/Kg	0.50	09-30-94
Total Antimony .....:	<0.50	mg/Kg	0.50	10-01-94
Total Beryllium .....:	<2.5	mg/Kg	2.5	10-01-94
Total Cadmium .....:	<2.5	mg/Kg	2.5	09-30-94
Total Chromium .....:	<5.0	mg/Kg	5.0	09-30-94
Total Copper .....:	6.0	mg/Kg	2.5	09-30-94
Total Lead .....:	19	mg/Kg	10.0	09-30-94
Total Mercury .....:	<0.50	mg/Kg	0.50	10-05-94
Total Nickel .....:	9.0	mg/Kg	2.5	09-30-94
Total Selenium .....:	<0.50	mg/Kg	0.50	09-30-94
Total Silver .....:	<2.5	mg/Kg	2.5	09-30-94
Total Thallium .....:	<0.50	mg/Kg	0.50	10-01-94
Total Zinc .....:	32	mg/Kg	2.5	09-30-94
Total Barium .....:	63	mg/Kg	10.0	10-01-94

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METHOD 8080

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY: RRH
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-1
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 50' South of North High W
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-2S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 75' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-3
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 100' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-4
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 120' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-5
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 140' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-6S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 130' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-7
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-8
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-9
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-10
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-11S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-29-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-12S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-04-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-13S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-04-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-14S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-04-94

Method 8080 - Pesticides & PCB'S

DATA TABLE

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-15
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-16
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-17
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
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CLIENT SAMPLE ID : CLT-18
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
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CLIENT SAMPLE ID : CLT-19
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-20
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-21
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-22
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-05-94

Method 8080 - Pesticides & PCB'S

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
4,4'-DDD	<2.0	ug/Kg	2.0
4,4'-DDE	<2.0	ug/Kg	2.0
4,4'-DDT	<10.	ug/Kg	10.
Aldrin	<10.	ug/Kg	10.
alpha-BHC	<10.	ug/Kg	10.
beta-BHC	<10.	ug/Kg	10.
delta-BHC	<25.	ug/Kg	25.
Chlordane	<75.	ug/Kg	75.
Dieldrin	<25.	ug/Kg	25.
Endosulfan I	<25.	ug/Kg	25.
Endosulfan II	<50.	ug/Kg	50.
Endosulfan sulfate	<25.	ug/Kg	25.
Endrin	<100.	ug/Kg	100.
Endrin aldehyde	<50.	ug/Kg	50.
Heptachlor	<25.	ug/Kg	25.
Hetachlor Epoxide	<50.	ug/Kg	50.
Lindane	<25.	ug/Kg	25.
Methoxychlor	<660.	ug/Kg	660.
Toxaphene	<50.	ug/Kg	50.
PCB 1016	<100.	ug/Kg	100.
PCB 1221	<2500.	ug/Kg	2500.
PCB 1232	<660.	ug/Kg	660.
PCB 1242	<300.	ug/Kg	300.
PCB 1248	<100.	ug/Kg	100.
PCB 1254	<100.	ug/Kg	100.
PCB 1260	<200.	ug/Kg	200.

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METHOD 8150

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SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-1
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 50' South of North High W
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40	ug/Kg	40
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
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SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-2S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 75' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T .....:	<40.	ug/Kg	40.
2,4,5-TP (Silvex) .....:	<40.	ug/Kg	40.
2,4-D .....:	<200.	ug/Kg	200.
2,4-DB .....:	<200.	ug/Kg	200.
Dalapon .....:	<3300.	ug/Kg	3300.
Dicamba .....:	<40	ug/Kg	40
Dichlorprop .....:	<660.	ug/Kg	660.
Dinoseb .....:	<660.	ug/Kg	660.
MCPA .....:	<4000.	ug/Kg	4000.
MCPP .....:	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-3
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 100' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40	ug/Kg	40
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-4
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 120' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40	ug/Kg	40
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-5
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 140' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40	ug/Kg	40
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-6S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 130' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40	ug/Kg	40
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
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CLIENT SAMPLE ID : CLT-7
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-8
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-9
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-10
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-11S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-12S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-13S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-14S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-06-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-15
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-08-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-16
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: --
ANALYSIS DATE .: 10-08-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
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PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-17
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-08-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-18
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-08-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-10-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-19
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-09-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-10-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-20
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-08-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-10-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-21
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-08-94

Method 8150 - Chlorinated Herbicides

DATA TABLE

Parameter	Result	Unit	Detection Limit
2,4,5-T ..... :	<40.	ug/Kg	40.
2,4,5-TP (Silvex) ..... :	<40.	ug/Kg	40.
2,4-D ..... :	<200.	ug/Kg	200.
2,4-DB ..... :	<200.	ug/Kg	200.
Dalapon ..... :	<3300.	ug/Kg	3300.
Dicamba ..... :	<40.	ug/Kg	40.
Dichlorprop ..... :	<660.	ug/Kg	660.
Dinoseb ..... :	<660.	ug/Kg	660.
MCPA ..... :	<4000.	ug/Kg	4000.
MCPP ..... :	<5000.	ug/Kg	5000.

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CLIENT ADVANCED SCIENCES INC.
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SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-10-94
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : CLT-22
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-04-94
ANALYSIS DATE .: 10-08-94

Method 8150 - Chlorinated Herbicides

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
2,4,5-T	<40.	ug/Kg	40.
2,4,5-TP (Silvex)	<40.	ug/Kg	40.
2,4-D	<200.	ug/Kg	200.
2,4-DB	<200.	ug/Kg	200.
Dalapon	<3300.	ug/Kg	3300.
Dicamba	<40.	ug/Kg	40.
Dichlorprop	<660.	ug/Kg	660.
Dinoseb	<660.	ug/Kg	660.
MCPA	<4000.	ug/Kg	4000.
MCPP	<5000.	ug/Kg	5000.

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CLIENT ADVANCED SCIENCES INC.
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SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: [illegible]

CLIENT SAMPLE ID : CLT-1
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 50' South of North High W
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-28-94

Method 8260 - Volatile Organics

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<200.	ug/Kg	200.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-2S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 75' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-28-94

Method 8260 - Volatile Organics

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane ..... :	<50.	ug/Kg	50.
Carbon tetrachloride ..... :	<50.	ug/Kg	50.
Chlorobenzene ..... :	<50.	ug/Kg	50.
Chloroethane ..... :	<50.	ug/Kg	50.
Chloroform ..... :	<50.	ug/Kg	50.
Chloromethane ..... :	<50.	ug/Kg	50.
cis 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Dibromochloromethane ..... :	<50.	ug/Kg	50.
Dibromochloropropane ..... :	<50.	ug/Kg	50.
Dibromomethane ..... :	<50.	ug/Kg	50.
Dichlorodifluoromethane ..... :	<250.	ug/Kg	250.
Dichloromethane ..... :	<50.	ug/Kg	50.
Diethyl ether ..... :	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro .. :	<200.	ug/Kg	200.
ethane (Freon 113) ..... :			
Ethylbenzene ..... :	<50.	ug/Kg	50.
Hexachlorobutadiene ..... :	<200.	ug/Kg	200.
Isopropylbenzene ..... :	<50.	ug/Kg	50.
Methyl ethyl ketone ..... :	<200.	ug/Kg	200.
Methyl isobutyl ketone ..... :	<200.	ug/Kg	200.
Methyl tert-butyl ether ..... :	<200.	ug/Kg	200.
m,p - Xylene ..... :	<50.	ug/Kg	50.
Napthalene ..... :	<50.	ug/Kg	50.
n-Butylbenzene ..... :	<50.	ug/Kg	50.
o-Xylene ..... :	<50.	ug/Kg	50.
Propylbenzene ..... :	<50.	ug/Kg	50.
sec-Butylbenzene ..... :	<50.	ug/Kg	50.
Styrene ..... :	<50.	ug/Kg	50.
tert-Butylbenzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Chloroethylvinyl Ether ..... :	<500.	ug/Kg	500.
trans 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Trichloroethene ..... :	<50.	ug/Kg	50.
Trichlorofluoromethane ..... :	<50.	ug/Kg	50.
Vinyl chloride ..... :	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene ..... :	<50.	ug/Kg	50.
trans 1,3-Dichloropropene ..... :	<50.	ug/Kg	50.

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SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-3
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 100' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-28-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<200.	ug/Kg	200.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-4
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 120' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-28-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<200.	ug/Kg	200.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-5
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 140' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-28-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<200.	ug/Kg	200.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-6S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 130' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 09-28-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 09-29-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<200.	ug/Kg	200.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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QUALITY CONTROL REPORT

QC IDENTIFIER .....: 35-092994-1
REFERENCE NOTEBOOK :
REFERENCE PAGE ....:

INSTRUMENT : Mass Spectrometer-Volatiles
ANALYZED BY : C. Warner
ANALYZED ON : 09-28-94

TEST DESCRIPTION ..: Method 8260 - Volatile Organics
TEST METHOD .....: 8260

SAMPLES IN THIS RUN: 6404433 6404434 6404435 6404436 6404437 6404438

CALIBRATION CHECK -

PARAMETER	UNIT	TRUE VALUE	FOUND VALUE	%RECOVERY
1,1,2,2-Tetrachloroethane	ug/L	10	10	100.0
1,1-Dichloroethane	ug/L	10	10	100.0
1,1-Dichloroethene	ug/L	10	10	100.0
1,2-Dichloropropane	ug/L	10	10	100.0
Bromoform	ug/L	10	10	100.0
Chlorobenzene	ug/L	10	10	100.0
Chloroform	ug/L	10	10	100.0
Chloromethane	ug/L	10	10	100.0
Ethylbenzene	ug/L	10	10	100.0
Toluene	ug/L	10	10	100.0
Vinyl chloride	ug/L	10	10	100.0
1,1,2,2-Tetrachloroethane	ug/L	10	8.0	80.0
1,1-Dichloroethane	ug/L	10	8.4	84.0
1,1-Dichloroethene	ug/L	10	8.4	84.0
1,2-Dichloropropane	ug/L	10	7.3	73.0
Chlorobenzene	ug/L	10	8.0	80.0
Chloroform	ug/L	10	8.0	80.0
Chloromethane	ug/L	10	10	100.0
Ethylbenzene	ug/L	10	8.1	81.0
Toluene	ug/L	10	8.2	82.0
Vinyl chloride	ug/L	10	10	100.0

REPLICATES -

SAMPLE NUMBER	PARAMETER	UNIT	RESULT	REPLICATE	RPD%
6404433	trans 1,3-Dichloropropene	ug/Kg	<50.	<50.	NC
6404433	1,1,2-Trichloro 1,2,2-Trifluoro	ug/Kg	<200.	<200.	NC
6404433	1,1,1,2-Tetrachloroethane	ug/Kg	<50.	<50.	NC
6404433	1,1,1-Trichloroethane	ug/Kg	<50.	<50.	NC
6404433	1,1,2,2-Tetrachloroethane	ug/Kg	<50.	<50.	NC
6404433	1,1,2,2-Tetrachloroethene	ug/Kg	<50.	<50.	NC
6404433	1,1,2-Trichloroethane	ug/Kg	<50.	<50.	NC
6404433	1,1-Dichloroethane	ug/Kg	<50.	<50.	NC

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QUALITY CONTROL REPORT

QC IDENTIFIER .....: 35-092994-1
REFERENCE NOTEBOOK :
REFERENCE PAGE ....:

INSTRUMENT : Mass Spectrometer-Volatiles
ANALYZED BY : C. Warner
ANALYZED ON : 09-28-94

REPLICATES -

SAMPLE NUMBER	PARAMETER	UNIT	RESULT	REPLICATE	RPD%
6404433	1,1-Dichloroethene	ug/Kg	<50.	<50.	NC
6404433	1,1-Dichloropropene	ug/Kg	<50.	<50.	NC
6404433	1,2Dibromoethane	ug/Kg	<50.	<50.	NC
6404433	1,2,3-Trichlorobenzene	ug/Kg	<50.	<50.	NC
6404433	1,2,3-Trichloropropane	ug/Kg	<50.	<50.	NC
6404433	1,2,4-Trichlorobenzene	ug/Kg	<50.	<50.	NC
6404433	1,2,4-Trimethylbenzene	ug/Kg	<50.	<50.	NC
6404433	1,2-Dichlorobenzene	ug/Kg	<50.	<50.	NC
6404433	1,2-Dichloroethane	ug/Kg	<50.	<50.	NC
6404433	1,2-Dichloropropane	ug/Kg	<50.	<50.	NC
6404433	1,3,5-Trimethylbenzene	ug/Kg	<50.	<50.	NC
6404433	1,3-Dichlorobenzene	ug/Kg	<50.	<50.	NC
6404433	1,3-Dichloropropane	ug/Kg	<50.	<50.	NC
6404433	1,4-Dichlorobenzene	ug/Kg	<50.	<50.	NC
6404433	2,2-Dichloropropane	ug/Kg	<50.	<50.	NC
6404433	2-Chlorotoluene	ug/Kg	<50.	<50.	NC
6404433	2-Hexanone	ug/Kg	<200.	<200.	NC
6404433	4-Chlorotoluene	ug/Kg	<50.	<50.	NC
6404433	4-Isopropyltoluene	ug/Kg	<50.	<50.	NC
6404433	Acetone	ug/Kg	<200.	<200.	NC
6404433	Benzene	ug/Kg	<50.	<50.	NC
6404433	Bromobenzene	ug/Kg	<50.	<50.	NC
6404433	Bromodichloromethane	ug/Kg	<50.	<50.	NC
6404433	Bromoform	ug/Kg	<50.	<50.	NC
6404433	Bromomethane	ug/Kg	<50.	<50.	NC
6404433	Carbon tetrachloride	ug/Kg	<50.	<50.	NC
6404433	Chlorobenzene	ug/Kg	<50.	<50.	NC
6404433	Chloroethane	ug/Kg	<50.	<50.	NC
6404433	Chloroform	ug/Kg	<50.	<50.	NC
6404433	Chloromethane	ug/Kg	<50.	<50.	NC
6404433	cis 1,2-Dichloroethene	ug/Kg	<50.	<50.	NC
6404433	Dibromochloromethane	ug/Kg	<50.	<50.	NC
6404433	Dibromochloropropane	ug/Kg	<50.	<50.	NC
6404433	Dibromomethane	ug/Kg	<50.	<50.	NC
6404433	Dichlorodifluoromethane	ug/Kg	<250.	<250.	NC
6404433	Dichloromethane	ug/Kg	<50.	<50.	NC
6404433	Diethyl ether	ug/Kg	<200.	<200.	NC
6404433	Ethylbenzene	ug/Kg	<50.	<50.	NC
6404433	Hexachlorobutadiene	ug/Kg	<200.	<200.	NC
6404433	Isopropylbenzene	ug/Kg	<50.	<50.	NC
6404433	Methyl ethyl ketone	ug/Kg	<200.	<200.	NC

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QUALITY CONTROL REPORT

QC IDENTIFIER .....: 35-092994-1
REFERENCE NOTEBOOK :
REFERENCE PAGE ....:

INSTRUMENT : Mass Spectrometer-Volatiles
ANALYZED BY : C. Warner
ANALYZED ON : 09-28-94

REPLICATES -

SAMPLE NUMBER	PARAMETER	UNIT	RESULT	REPLICATE	RPD%
6404433	Methyl isobutyl ketone	ug/Kg	<200.	<200.	NC
6404433	Methyl tert-butyl ether	ug/Kg	<200.	<200.	NC
6404433	m,p - Xylene	ug/Kg	<50.	<50.	NC
6404433	Naphthalene	ug/Kg	<50.	<50.	NC
6404433	n-Butylbenzene	ug/Kg	<50.	<50.	NC
6404433	o-Xylene	ug/Kg	<50.	<50.	NC
6404433	Propylbenzene	ug/Kg	<50.	<50.	NC
6404433	sec-Butylbenzene	ug/Kg	<50.	<50.	NC
6404433	Styrene	ug/Kg	<50.	<50.	NC
6404433	tert-Butylbenzene	ug/Kg	<50.	<50.	NC
6404433	Toluene	ug/Kg	<50.	<50.	NC
6404433	trans 1,2-Dichloroethene	ug/Kg	<50.	<50.	NC
6404433	Trichloroethene	ug/Kg	<50.	<50.	NC
6404433	Trichlorofluoromethane	ug/Kg	<50.	<50.	NC
6404433	Vinyl chloride	ug/Kg	<50.	<50.	NC
6404433	Chloroethylvinyl Ether	ug/Kg	<500.	<500.	NC
6404433	Cis 1,3-Dichloropropylene	ug/Kg	<50.	<50.	NC

SPIKES -

SAMPLE NUMBER	PARAMETER	UNIT	SAMPLE RESULT	SPIKE AMOUNT	SAMPLE+SPIKE RESULT	%RECOVERY
6404433	Benzene	ug/Kg	<50.	500	370	74.0
6404433	Chlorobenzene	ug/Kg	<50.	500	320	64.0
6404433	Toluene	ug/Kg	<50.	500	390	78.0
6404433	Trichloroethene	ug/Kg	<50.	500	500	100.0

METHOD BLANKS -

PARAMETER	UNIT	RESULT
1,1,1,2-Tetrachloroethane	ug/Kg	<50.
1,1,1-Trichloroethane	ug/Kg	<50.

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QUALITY CONTROL REPORT

QC IDENTIFIER .....: 35-092994-1
REFERENCE NOTEBOOK :
REFERENCE PAGE ....:

INSTRUMENT : Mass Spectrometer-Volatiles
ANALYZED BY : C. Warner
ANALYZED ON : 09-28-94

METHOD BLANKS -

PARAMETER	UNIT	RESULT
1,1,2,2-Tetrachloroethane	ug/Kg	<50.
1,1,2,2-Tetrachloroethene	ug/Kg	<50.
1,1,2-Trichloroethane	ug/Kg	<50.
1,1-Dichloroethane	ug/Kg	<50.
1,1-Dichloroethene	ug/Kg	<50.
1,1-Dichloropropene	ug/Kg	<50.
1,2-Dibromoethane	ug/Kg	<50.
1,2,3-Trichlorobenzene	ug/Kg	<50.
1,2,3-Trichloropropane	ug/Kg	<50.
1,2,4-Trichlorobenzene	ug/Kg	<50.
1,2,4-Trimethylbenzene	ug/Kg	<50.
1,2-Dichlorobenzene	ug/Kg	<50.
1,2-Dichloroethane	ug/Kg	<50.
1,2-Dichloropropane	ug/Kg	<50.
1,3,5-Trimethylbenzene	ug/Kg	<50.
1,3-Dichlorobenzene	ug/Kg	<50.
1,3-Dichloropropane	ug/Kg	<50.
1,4-Dichlorobenzene	ug/Kg	<50.
2,2-Dichloropropane	ug/Kg	<50.
2-Chlorotoluene	ug/Kg	<50.
2-Hexanone	ug/Kg	<200.
4-Chlorotoluene	ug/Kg	<50.
4-Isopropyltoluene	ug/Kg	<50.
Acetone	ug/Kg	<200.
Benzene	ug/Kg	<50.
Bromobenzene	ug/Kg	<50.
Bromodichloromethane	ug/Kg	<50.
Bromoform	ug/Kg	<50.
Bromomethane	ug/Kg	<50.
Carbon tetrachloride	ug/Kg	<50.
Chlorobenzene	ug/Kg	<50.
Chloroethane	ug/Kg	<50.
Chloroform	ug/Kg	<50.
Chloromethane	ug/Kg	<50.
cis 1,2-Dichloroethene	ug/Kg	<50.
Dibromochloromethane	ug/Kg	<50.
Dibromochloropropane	ug/Kg	<50.
Dibromomethane	ug/Kg	<50.
Dichlorodifluoromethane	ug/Kg	<250.
Dichloromethane	ug/Kg	<50.
Diethyl ether	ug/Kg	<200.
1,1,2-Trichloro 1,2,2-Trifluoro	ug/Kg	<200

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QUALITY CONTROL REPORT

QC IDENTIFIER .....: 35-092994-1
REFERENCE NOTEBOOK :
REFERENCE PAGE ....:

INSTRUMENT : Mass Spectrometer-Volatiles
ANALYZED BY : C. Warner
ANALYZED ON : 09-28-94

METHOD BLANKS -

PARAMETER	UNIT	RESULT
Ethylbenzene	ug/Kg	<50.
Hexachlorobutadiene	ug/Kg	<200.
Isopropylbenzene	ug/Kg	<50.
Methyl ethyl ketone	ug/Kg	<200.
Methyl isobutyl ketone	ug/Kg	<200.
Methyl tert-butyl ether	ug/Kg	<200.
m,p - Xylene	ug/Kg	<50.
Napthalene	ug/Kg	<50.
n-Butylbenzene	ug/Kg	<50.
o-Xylene	ug/Kg	<50.
Propylbenzene	ug/Kg	<50.
sec-Butylbenzene	ug/Kg	<50.
Styrene	ug/Kg	<50.
tert-Butylbenzene	ug/Kg	<50.
Toluene	ug/Kg	<50.
Chloroethylvinyl Ether	ug/Kg	<500.
trans 1,2-Dichloroethene	ug/Kg	<50.
Trichloroethene	ug/Kg	<50.
Trichlorofluoromethane	ug/Kg	<50.
Vinyl chloride	ug/Kg	<50.
Cis 1,3-Dichloropropylene	ug/Kg	<50.
trans 1,3-Dichloropropene	ug/Kg	<50.

NOTE -

1) NC: Not Calculable because result is < 5 times the MDL

2) NP: Not Practical because sample result is 4 times or more greater than spike added.

3) Percent Recovery is:

$$\frac{\text{Sample+Spike Result} - \text{Sample Result}}{\text{Spike Amount}} \times 100$$

4) Relative Percent Difference (RPD) is:

$$\frac{\text{Sample Result} - \text{Replicate Result}}{(\text{Sample Result} + \text{Replicate Result})/2} \times 100$$

WESTECH
LABORATORIES, INC.
QUALITY ASSURANCE OFFICER

DATE 9-30-94

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-7
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
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LAS CRUCES, NM 88001

SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-8
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane ..... :	<50.	ug/Kg	50.
Carbon tetrachloride ..... :	<50.	ug/Kg	50.
Chlorobenzene ..... :	<50.	ug/Kg	50.
Chloroethane ..... :	<50.	ug/Kg	50.
Chloroform ..... :	<50.	ug/Kg	50.
Chloromethane ..... :	<50.	ug/Kg	50.
cis 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Dibromochloromethane ..... :	<50.	ug/Kg	50.
Dibromochloropropane ..... :	<50.	ug/Kg	50.
Dibromomethane ..... :	<50.	ug/Kg	50.
Dichlorodifluoromethane ..... :	<250.	ug/Kg	250.
Dichloromethane ..... :	<50.	ug/Kg	50.
Diethyl ether ..... :	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro .. :	<50.	ug/Kg	50.
ethane (Freon 113) ..... :			
Ethylbenzene ..... :	<50.	ug/Kg	50.
Hexachlorobutadiene ..... :	<200.	ug/Kg	200.
Isopropylbenzene ..... :	<50.	ug/Kg	50.
Methyl ethyl ketone ..... :	<200.	ug/Kg	200.
Methyl isobutyl ketone ..... :	<200.	ug/Kg	200.
Methyl tert-butyl ether ..... :	<200.	ug/Kg	200.
m,p - Xylene ..... :	<50.	ug/Kg	50.
Napthalene ..... :	<50.	ug/Kg	50.
n-Butylbenzene ..... :	<50.	ug/Kg	50.
o-Xylene ..... :	<50.	ug/Kg	50.
Propylbenzene ..... :	<50.	ug/Kg	50.
sec-Butylbenzene ..... :	<50.	ug/Kg	50.
Styrene ..... :	<50.	ug/Kg	50.
tert-Butylbenzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Chloroethylvinyl Ether ..... :	<500.	ug/Kg	500.
trans 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Trichloroethene ..... :	<50.	ug/Kg	50.
Trichlorofluoromethane ..... :	<50.	ug/Kg	50.
Vinyl chloride ..... :	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene ..... :	<50.	ug/Kg	50.
trans 1,3-Dichloropropene ..... :	<50.	ug/Kg	50.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-9
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-10
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-11S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane ..... :	<50.	ug/Kg	50.
Carbon tetrachloride ..... :	<50.	ug/Kg	50.
Chlorobenzene ..... :	<50.	ug/Kg	50.
Chloroethane ..... :	<50.	ug/Kg	50.
Chloroform ..... :	<50.	ug/Kg	50.
Chloromethane ..... :	<50.	ug/Kg	50.
cis 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Dibromochloromethane ..... :	<50.	ug/Kg	50.
Dibromochloropropane ..... :	<50.	ug/Kg	50.
Dibromomethane ..... :	<50.	ug/Kg	50.
Dichlorodifluoromethane ..... :	<250.	ug/Kg	250.
Dichloromethane ..... :	<50.	ug/Kg	50.
Diethyl ether ..... :	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro .. :	<50.	ug/Kg	50.
ethane (Freon 113) ..... :			
Ethylbenzene ..... :	<50.	ug/Kg	50.
Hexachlorobutadiene ..... :	<200.	ug/Kg	200.
Isopropylbenzene ..... :	<50.	ug/Kg	50.
Methyl ethyl ketone ..... :	<200.	ug/Kg	200.
Methyl isobutyl ketone ..... :	<200.	ug/Kg	200.
Methyl tert-butyl ether ..... :	<200.	ug/Kg	200.
m,p - Xylene ..... :	<50.	ug/Kg	50.
Napthalene ..... :	<50.	ug/Kg	50.
n-Butylbenzene ..... :	<50.	ug/Kg	50.
o-Xylene ..... :	<50.	ug/Kg	50.
Propylbenzene ..... :	<50.	ug/Kg	50.
sec-Butylbenzene ..... :	<50.	ug/Kg	50.
Styrene ..... :	<50.	ug/Kg	50.
tert-Butylbenzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Chloroethylvinyl Ether ..... :	<500.	ug/Kg	500.
trans 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Trichloroethene ..... :	<50.	ug/Kg	50.
Trichlorofluoromethane ..... :	<50.	ug/Kg	50.
Vinyl chloride ..... :	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene ..... :	<50.	ug/Kg	50.
trans 1,3-Dichloropropene ..... :	<50.	ug/Kg	50.

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SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-12S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-03-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-13S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-14S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-01-94
ANALYSIS DATE .: 10-03-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
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LAS CRUCES, NM 88001

SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY: HKN
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-15
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY: [illegible]
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY: RWH
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-16
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-17
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<5.0	ug/Kg	5.0
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-18
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
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LAS CRUCES, NM 88001

SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-19
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY: WNT

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-20
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane ..... :	<50.	ug/Kg	50.
Carbon tetrachloride ..... :	<50.	ug/Kg	50.
Chlorobenzene ..... :	<50.	ug/Kg	50.
Chloroethane ..... :	<50.	ug/Kg	50.
Chloroform ..... :	<50.	ug/Kg	50.
Chloromethane ..... :	<50.	ug/Kg	50.
cis 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Dibromochloromethane ..... :	<50.	ug/Kg	50.
Dibromochloropropane ..... :	<50.	ug/Kg	50.
Dibromomethane ..... :	<50.	ug/Kg	50.
Dichlorodifluoromethane ..... :	<250.	ug/Kg	250.
Dichloromethane ..... :	<50.	ug/Kg	50.
Diethyl ether ..... :	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro .. :	<50.	ug/Kg	50.
ethane (Freon 113) ..... :			
Ethylbenzene ..... :	<50.	ug/Kg	50.
Hexachlorobutadiene ..... :	<200.	ug/Kg	200.
Isopropylbenzene ..... :	<50.	ug/Kg	50.
Methyl ethyl ketone ..... :	<200.	ug/Kg	200.
Methyl isobutyl ketone ..... :	<200.	ug/Kg	200.
Methyl tert-butyl ether ..... :	<200.	ug/Kg	200.
m,p - Xylene ..... :	<50.	ug/Kg	50.
Napthalene ..... :	<50.	ug/Kg	50.
n-Butylbenzene ..... :	<50.	ug/Kg	50.
o-Xylene ..... :	<50.	ug/Kg	50.
Propylbenzene ..... :	<50.	ug/Kg	50.
sec-Butylbenzene ..... :	<50.	ug/Kg	50.
Styrene ..... :	<50.	ug/Kg	50.
tert-Butylbenzene ..... :	<50.	ug/Kg	50.
Toluene ..... :	<50.	ug/Kg	50.
Chloroethylvinyl Ether ..... :	<500.	ug/Kg	500.
trans 1,2-Dichloroethene ..... :	<50.	ug/Kg	50.
Trichloroethene ..... :	<50.	ug/Kg	50.
Trichlorofluoromethane ..... :	<50.	ug/Kg	50.
Vinyl chloride ..... :	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene ..... :	<50.	ug/Kg	50.
trans 1,3-Dichloropropene ..... :	<50.	ug/Kg	50.

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SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:
PAGE : 1 OF 2

CLIENT SAMPLE ID : CLT-21
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-22
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-03-94
ANALYSIS DATE .: 10-04-94

Method 8260 - Volatile Organics

DATA TABLE

Parameter	Result	Unit	Detection Limit
1,1,1,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,1-Trichloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethane .....:	<50.	ug/Kg	50.
1,1,2,2-Tetrachloroethene .....:	<50.	ug/Kg	50.
1,1,2-Trichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethane .....:	<50.	ug/Kg	50.
1,1-Dichloroethene .....:	<50.	ug/Kg	50.
1,1-Dichloropropene .....:	<50.	ug/Kg	50.
1,2-Dibromoethane .....:	<50.	ug/Kg	50.
1,2,3-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,3-Trichloropropane .....:	<50.	ug/Kg	50.
1,2,4-Trichlorobenzene .....:	<50.	ug/Kg	50.
1,2,4-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,2-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,2-Dichloroethane .....:	<50.	ug/Kg	50.
1,2-Dichloropropane .....:	<50.	ug/Kg	50.
1,3,5-Trimethylbenzene .....:	<50.	ug/Kg	50.
1,3-Dichlorobenzene .....:	<50.	ug/Kg	50.
1,3-Dichloropropane .....:	<50.	ug/Kg	50.
1,4-Dichlorobenzene .....:	<50.	ug/Kg	50.
2,2-Dichloropropane .....:	<50.	ug/Kg	50.
2-Chlorotoluene .....:	<50.	ug/Kg	50.
2-Hexanone .....:	<200.	ug/Kg	200.
4-Chlorotoluene .....:	<50.	ug/Kg	50.
4-Isopropyltoluene .....:	<50.	ug/Kg	50.
Acetone .....:	<200.	ug/Kg	200.
Benzene .....:	<50.	ug/Kg	50.
Bromobenzene .....:	<50.	ug/Kg	50.
Bromodichloromethane .....:	<50.	ug/Kg	50.
Bromoform .....:	<50.	ug/Kg	50.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-05-94
REVIEWED BY: [illegible]
PAGE : 2 OF 2

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
Bromomethane	<50.	ug/Kg	50.
Carbon tetrachloride	<50.	ug/Kg	50.
Chlorobenzene	<50.	ug/Kg	50.
Chloroethane	<50.	ug/Kg	50.
Chloroform	<50.	ug/Kg	50.
Chloromethane	<50.	ug/Kg	50.
cis 1,2-Dichloroethene	<50.	ug/Kg	50.
Dibromochloromethane	<50.	ug/Kg	50.
Dibromochloropropane	<50.	ug/Kg	50.
Dibromomethane	<50.	ug/Kg	50.
Dichlorodifluoromethane	<250.	ug/Kg	250.
Dichloromethane	<50.	ug/Kg	50.
Diethyl ether	<200.	ug/Kg	200.
1,1,2-Trichloro 1,2,2-Trifluoro ethane (Freon 113)	<50.	ug/Kg	50.
Ethylbenzene	<50.	ug/Kg	50.
Hexachlorobutadiene	<200.	ug/Kg	200.
Isopropylbenzene	<50.	ug/Kg	50.
Methyl ethyl ketone	<200.	ug/Kg	200.
Methyl isobutyl ketone	<200.	ug/Kg	200.
Methyl tert-butyl ether	<200.	ug/Kg	200.
m,p - Xylene	<50.	ug/Kg	50.
Napthalene	<50.	ug/Kg	50.
n-Butylbenzene	<50.	ug/Kg	50.
o-Xylene	<50.	ug/Kg	50.
Propylbenzene	<50.	ug/Kg	50.
sec-Butylbenzene	<50.	ug/Kg	50.
Styrene	<50.	ug/Kg	50.
tert-Butylbenzene	<50.	ug/Kg	50.
Toluene	<50.	ug/Kg	50.
Chloroethylvinyl Ether	<500.	ug/Kg	500.
trans 1,2-Dichloroethene	<50.	ug/Kg	50.
Trichloroethene	<50.	ug/Kg	50.
Trichlorofluoromethane	<50.	ug/Kg	50.
Vinyl chloride	<50.	ug/Kg	50.
Cis 1,3-Dichloropropylene	<50.	ug/Kg	50.
trans 1,3-Dichloropropene	<50.	ug/Kg	50.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-1
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 50' South of North High W
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline ....:	<400.	ug/Kg	400.
Acenaphthene ....:	<200.	ug/Kg	200.
2,4-Dinitrophenol ....:	<200.	ug/Kg	200.
4-Nitrophenol ....:	<300.	ug/Kg	300.
Dibenzofuran ....:	<200.	ug/Kg	200.
2,4-Dinitrotoluene ....:	<200.	ug/Kg	200.
2,6-Dinitrotoluene ....:	<200.	ug/Kg	200.
Diethyl phthalate ....:	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether ....:	<200.	ug/Kg	200.
Fluorene ....:	<200.	ug/Kg	200.
4-Nitroaniline ....:	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol ....:	<300.	ug/Kg	300.
N-Nitrosodiphenylamine ....:	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether ....:	<200.	ug/Kg	200.
Hexachlorobenzene ....:	<200.	ug/Kg	200.
Pentachlorophenol ....:	<300.	ug/Kg	300.
3-Methylphenol ....:	<200.	ug/Kg	200.
2,6-Dichlorophenol ....:	<200.	ug/Kg	200.
N-Nitrosodibutylamine ....:	<200.	ug/Kg	200.
N-Nitrosodiethylamine ....:	<200.	ug/Kg	200.
Phenanthrene ....:	<200.	ug/Kg	200.
Anthracene ....:	<200.	ug/Kg	200.
Di-n-butyl phthalate ....:	<200.	ug/Kg	200.
Fluoranthene ....:	<200.	ug/Kg	200.
Pyrene ....:	<200.	ug/Kg	200.
Butyl benzyl phthalate ....:	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine ....:	<300.	ug/Kg	300.
Benzo(a)anthracene ....:	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate ....:	<200.	ug/Kg	200.
Chrysene ....:	<200.	ug/Kg	200.
Di-n-octyl phthalate ....:	<200.	ug/Kg	200.
Benzo(b)fluoranthene ....:	<660.	ug/Kg	660.
Benzo(k)fluoranthene ....:	<200.	ug/Kg	200.
Benzo(a)pyrene ....:	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene ....:	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene ....:	<200.	ug/Kg	200.
Benzo(ghi)perylene ....:	<200.	ug/Kg	200.
alpha-BHC ....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404433
INVOICE NO.: 62141024
REPORT DATE: 10-03-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-2S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 75' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-29-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline ....:	<400.	ug/Kg	400.
Acenaphthene ....:	<200.	ug/Kg	200.
2,4-Dinitrophenol ....:	<200.	ug/Kg	200.
4-Nitrophenol ....:	<300.	ug/Kg	300.
Dibenzofuran ....:	<200.	ug/Kg	200.
2,4-Dinitrotoluene ....:	<200.	ug/Kg	200.
2,6-Dinitrotoluene ....:	<200.	ug/Kg	200.
Diethyl phthalate ....:	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether ....:	<200.	ug/Kg	200.
Fluorene ....:	<200.	ug/Kg	200.
4-Nitroaniline ....:	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol ....:	<300.	ug/Kg	300.
N-Nitrosodiphenylamine ....:	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether ....:	<200.	ug/Kg	200.
Hexachlorobenzene ....:	<200.	ug/Kg	200.
Pentachlorophenol ....:	<300.	ug/Kg	300.
3-Methylphenol ....:	<200.	ug/Kg	200.
2,6-Dichlorophenol ....:	<200.	ug/Kg	200.
N-Nitrosodibutylamine ....:	<200.	ug/Kg	200.
N-Nitrosodiethylamine ....:	<200.	ug/Kg	200.
Phenanthrene ....:	<200.	ug/Kg	200.
Anthracene ....:	<200.	ug/Kg	200.
Di-n-butyl phthalate ....:	<200.	ug/Kg	200.
Fluoranthene ....:	<200.	ug/Kg	200.
Pyrene ....:	<200.	ug/Kg	200.
Butyl benzyl phthalate ....:	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine ....:	<300.	ug/Kg	300.
Benzo(a)anthracene ....:	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate ....:	<200.	ug/Kg	200.
Chrysene ....:	<200.	ug/Kg	200.
Di-n-octyl phthalate ....:	<200.	ug/Kg	200.
Benzo(b)fluoranthene ....:	<660.	ug/Kg	660.
Benzo(k)fluoranthene ....:	<200.	ug/Kg	200.
Benzo(a)pyrene ....:	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene ....:	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene ....:	<200.	ug/Kg	200.
Benzo(ghi)perylene ....:	<200.	ug/Kg	200.
alpha-BHC ....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404434
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-3
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 100' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-26-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404435
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
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SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

CLIENT SAMPLE ID : CLT-4
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 120' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404436
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
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LAS CRUCES, NM 88001

SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-5
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 140' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 3 OF 4

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404437
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
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LAS CRUCES, NM 88001

SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

CLIENT SAMPLE ID : CLT-6S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: 130' South of NHW
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-27-94
SUBMITTAL DATE : 09-27-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404438
INVOICE NO.: 62141024
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:
PAGE : 1 OF 4

CLIENT SAMPLE ID : CLT-7
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline ....:	<400.	ug/Kg	400.
Acenaphthene ....:	<200.	ug/Kg	200.
2,4-Dinitrophenol ....:	<200.	ug/Kg	200.
4-Nitrophenol ....:	<300.	ug/Kg	300.
Dibenzofuran ....:	<200.	ug/Kg	200.
2,4-Dinitrotoluene ....:	<200.	ug/Kg	200.
2,6-Dinitrotoluene ....:	<200.	ug/Kg	200.
Diethyl phthalate ....:	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether ....:	<200.	ug/Kg	200.
Fluorene ....:	<200.	ug/Kg	200.
4-Nitroaniline ....:	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol ....:	<300.	ug/Kg	300.
N-Nitrosodiphenylamine ....:	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether ....:	<200.	ug/Kg	200.
Hexachlorobenzene ....:	<200.	ug/Kg	200.
Pentachlorophenol ....:	<300.	ug/Kg	300.
3-Methylphenol ....:	<200.	ug/Kg	200.
2,6-Dichlorophenol ....:	<200.	ug/Kg	200.
N-Nitrosodibutylamine ....:	<200.	ug/Kg	200.
N-Nitrosodiethylamine ....:	<200.	ug/Kg	200.
Phenanthrene ....:	<200.	ug/Kg	200.
Anthracene ....:	<200.	ug/Kg	200.
Di-n-butyl phthalate ....:	<200.	ug/Kg	200.
Fluoranthene ....:	<200.	ug/Kg	200.
Pyrene ....:	<200.	ug/Kg	200.
Butyl benzyl phthalate ....:	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine ....:	<300.	ug/Kg	300.
Benzo(a)anthracene ....:	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate ....:	<200.	ug/Kg	200.
Chrysene ....:	<200.	ug/Kg	200.
Di-n-octyl phthalate ....:	<200.	ug/Kg	200.
Benzo(b)fluoranthene ....:	<660.	ug/Kg	660.
Benzo(k)fluoranthene ....:	<200.	ug/Kg	200.
Benzo(a)pyrene ....:	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene ....:	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene ....:	<200.	ug/Kg	200.
Benzo(ghi)perylene ....:	<200.	ug/Kg	200.
alpha-BHC ....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404465
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

CLIENT SAMPLE ID : CLT-8
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline ....:	<400.	ug/Kg	400.
Acenaphthene ....:	<200.	ug/Kg	200.
2,4-Dinitrophenol ....:	<200.	ug/Kg	200.
4-Nitrophenol ....:	<300.	ug/Kg	300.
Dibenzofuran ....:	<200.	ug/Kg	200.
2,4-Dinitrotoluene ....:	<200.	ug/Kg	200.
2,6-Dinitrotoluene ....:	<200.	ug/Kg	200.
Diethyl phthalate ....:	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether ....:	<200.	ug/Kg	200.
Fluorene ....:	<200.	ug/Kg	200.
4-Nitroaniline ....:	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol ....:	<300.	ug/Kg	300.
N-Nitrosodiphenylamine ....:	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether ....:	<200.	ug/Kg	200.
Hexachlorobenzene ....:	<200.	ug/Kg	200.
Pentachlorophenol ....:	<300.	ug/Kg	300.
3-Methylphenol ....:	<200.	ug/Kg	200.
2,6-Dichlorophenol ....:	<200.	ug/Kg	200.
N-Nitrosodibutylamine ....:	<200.	ug/Kg	200.
N-Nitrosodiethylamine ....:	<200.	ug/Kg	200.
Phenanthrene ....:	<200.	ug/Kg	200.
Anthracene ....:	<200.	ug/Kg	200.
Di-n-butyl phthalate ....:	<200.	ug/Kg	200.
Fluoranthene ....:	<200.	ug/Kg	200.
Pyrene ....:	<200.	ug/Kg	200.
Butyl benzyl phthalate ....:	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine ....:	<300.	ug/Kg	300.
Benzo(a)anthracene ....:	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate ....:	<200.	ug/Kg	200.
Chrysene ....:	<200.	ug/Kg	200.
Di-n-octyl phthalate ....:	<200.	ug/Kg	200.
Benzo(b)fluoranthene ....:	<660.	ug/Kg	660.
Benzo(k)fluoranthene ....:	<200.	ug/Kg	200.
Benzo(a)pyrene ....:	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene ....:	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene ....:	<200.	ug/Kg	200.
Benzo(ghi)perylene ....:	<200.	ug/Kg	200.
alpha-BHC ....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404466
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-9
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404467
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-10
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404468
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]
PAGE : 1 OF 4

CLIENT SAMPLE ID : CLT-11S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 09-28-94
ANALYSIS DATE .: 10-01-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404469
INVOICE NO.: 62141033
REPORT DATE: 10-04-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:
PAGE : 1 OF 4

CLIENT SAMPLE ID : CLT-12S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-05-94
ANALYSIS DATE .: 10-06-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404470
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY: [illegible]

CLIENT SAMPLE ID : CLT-13S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-05-94
ANALYSIS DATE .: 10-06-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404471
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-14S
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: WSMR Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-28-94
SUBMITTAL DATE : 09-28-94
EXTRACTION DATE: 10-05-94
ANALYSIS DATE .: 10-06-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol ..... :	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether ..... :	<200.	ug/Kg	200.
2-Chlorophenol ..... :	<200.	ug/Kg	200.
1,3-Dichlorobenzene ..... :	<200.	ug/Kg	200.
1,4-Dichlorobenzene ..... :	<200.	ug/Kg	200.
1,2-Dichlorobenzene ..... :	<200.	ug/Kg	200.
2-Methylphenol ..... :	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether ..... :	<200.	ug/Kg	200.
4-Methylphenol ..... :	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine ..... :	<200.	ug/Kg	200.
Hexachloroethane ..... :	<200.	ug/Kg	200.
Nitrobenzene ..... :	<200.	ug/Kg	200.
Isophorone ..... :	<200.	ug/Kg	200.
2-Nitrophenol ..... :	<200.	ug/Kg	200.
2,4-Dimethylphenol ..... :	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane ..... :	<200.	ug/Kg	200.
2,4-Dichlorophenol ..... :	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene ..... :	<200.	ug/Kg	200.
Naphthalene ..... :	<200.	ug/Kg	200.
4-Chloroaniline ..... :	<400.	ug/Kg	400.
Hexachlorobutadiene ..... :	<200.	ug/Kg	200.
4-Chloro-3-methylphenol ..... :	<300.	ug/Kg	300.
2-Methylnaphthalene ..... :	<200.	ug/Kg	200.
Hexachlorocyclopentadiene ..... :	<200.	ug/Kg	200.
2,4,6-Trichlorophenol ..... :	<200.	ug/Kg	200.
2,4,5-Trichlorophenol ..... :	<200.	ug/Kg	200.
2-Chloronaphthalene ..... :	<200.	ug/Kg	200.
2-Nitroaniline ..... :	<300.	ug/Kg	300.
Dimethyl phthalate ..... :	<200.	ug/Kg	200.
Acenaphthylene ..... :	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline ....:	<400.	ug/Kg	400.
Acenaphthene ....:	<200.	ug/Kg	200.
2,4-Dinitrophenol ....:	<200.	ug/Kg	200.
4-Nitrophenol ....:	<300.	ug/Kg	300.
Dibenzofuran ....:	<200.	ug/Kg	200.
2,4-Dinitrotoluene ....:	<200.	ug/Kg	200.
2,6-Dinitrotoluene ....:	<200.	ug/Kg	200.
Diethyl phthalate ....:	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether ....:	<200.	ug/Kg	200.
Fluorene ....:	<200.	ug/Kg	200.
4-Nitroaniline ....:	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol ....:	<300.	ug/Kg	300.
N-Nitrosodiphenylamine ....:	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether ....:	<200.	ug/Kg	200.
Hexachlorobenzene ....:	<200.	ug/Kg	200.
Pentachlorophenol ....:	<300.	ug/Kg	300.
3-Methylphenol ....:	<200.	ug/Kg	200.
2,6-Dichlorophenol ....:	<200.	ug/Kg	200.
N-Nitrosodibutylamine ....:	<200.	ug/Kg	200.
N-Nitrosodiethylamine ....:	<200.	ug/Kg	200.
Phenanthrene ....:	<200.	ug/Kg	200.
Anthracene ....:	<200.	ug/Kg	200.
Di-n-butyl phthalate ....:	<200.	ug/Kg	200.
Fluoranthene ....:	<200.	ug/Kg	200.
Pyrene ....:	<200.	ug/Kg	200.
Butyl benzyl phthalate ....:	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine ....:	<300.	ug/Kg	300.
Benzo(a)anthracene ....:	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate ....:	<200.	ug/Kg	200.
Chrysene ....:	<200.	ug/Kg	200.
Di-n-octyl phthalate ....:	<200.	ug/Kg	200.
Benzo(b)fluoranthene ....:	<660.	ug/Kg	660.
Benzo(k)fluoranthene ....:	<200.	ug/Kg	200.
Benzo(a)pyrene ....:	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene ....:	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene ....:	<200.	ug/Kg	200.
Benzo(ghi)perylene ....:	<200.	ug/Kg	200.
alpha-BHC ....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404472
INVOICE NO.: 62141033
REPORT DATE: 10-07-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-15
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline ....:	<400.	ug/Kg	400.
Acenaphthene ....:	<200.	ug/Kg	200.
2,4-Dinitrophenol ....:	<200.	ug/Kg	200.
4-Nitrophenol ....:	<300.	ug/Kg	300.
Dibenzofuran ....:	<200.	ug/Kg	200.
2,4-Dinitrotoluene ....:	<200.	ug/Kg	200.
2,6-Dinitrotoluene ....:	<200.	ug/Kg	200.
Diethyl phthalate ....:	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether ....:	<200.	ug/Kg	200.
Fluorene ....:	<200.	ug/Kg	200.
4-Nitroaniline ....:	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol ....:	<300.	ug/Kg	300.
N-Nitrosodiphenylamine ....:	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether ....:	<200.	ug/Kg	200.
Hexachlorobenzene ....:	<200.	ug/Kg	200.
Pentachlorophenol ....:	<300.	ug/Kg	300.
3-Methylphenol ....:	<200.	ug/Kg	200.
2,6-Dichlorophenol ....:	<200.	ug/Kg	200.
N-Nitrosodibutylamine ....:	<200.	ug/Kg	200.
N-Nitrosodiethylamine ....:	<200.	ug/Kg	200.
Phenanthrene ....:	<200.	ug/Kg	200.
Anthracene ....:	<200.	ug/Kg	200.
Di-n-butyl phthalate ....:	<200.	ug/Kg	200.
Fluoranthene ....:	<200.	ug/Kg	200.
Pyrene ....:	<200.	ug/Kg	200.
Butyl benzyl phthalate ....:	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine ....:	<300.	ug/Kg	300.
Benzo(a)anthracene ....:	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate ....:	<200.	ug/Kg	200.
Chrysene ....:	<200.	ug/Kg	200.
Di-n-octyl phthalate ....:	<200.	ug/Kg	200.
Benzo(b)fluoranthene ....:	<660.	ug/Kg	660.
Benzo(k)fluoranthene ....:	<200.	ug/Kg	200.
Benzo(a)pyrene ....:	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene ....:	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene ....:	<200.	ug/Kg	200.
Benzo(ghi)perylene ....:	<200.	ug/Kg	200.
alpha-BHC ....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404487
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 4

CLIENT SAMPLE ID : CLT-16
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 2 OF 4

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404488
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-17
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404489
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-18
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 3 OF 4

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404490
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]
PAGE : 4 OF 4

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-19
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 2 OF 4

DATA TABLE (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404491
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-20
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 2 OF 4

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404492
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:
PAGE : 1 OF 4

CLIENT SAMPLE ID : CLT-21
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-94

Method 8270: Semi-Volatiles by Capillary Column GC/MS

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404493
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

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LAS CRUCES, NM 88001

SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

CLIENT SAMPLE ID : CLT-22
SAMPLE TYPE .....: Soil
SAMPLED BY .....: G. Esqueda
SUBMITTED BY ....: G. Jordan
SAMPLE SOURCE ...: Comm. Trench
ANALYST .....: C. Warner

AUTHORIZED BY : G. Jordan
CLIENT P.O. : 600.11
SAMPLE DATE ...: 09-29-94
SUBMITTAL DATE : 09-29-94
EXTRACTION DATE: 10-06-94
ANALYSIS DATE .: 10-08-91

Method 8270: Semi-Volatiles by Capillary Column GC/MS

DATA TABLE

Parameter	Result	Unit	Detection Limit
Phenol	<200.	ug/Kg	200.
Bis(2-chloroethyl)ether	<200.	ug/Kg	200.
2-Chlorophenol	<200.	ug/Kg	200.
1,3-Dichlorobenzene	<200.	ug/Kg	200.
1,4-Dichlorobenzene	<200.	ug/Kg	200.
1,2-Dichlorobenzene	<200.	ug/Kg	200.
2-Methylphenol	<200.	ug/Kg	200.
Bis(2-chloroisopropyl)ether	<200.	ug/Kg	200.
4-Methylphenol	<200.	ug/Kg	200.
N-Nitroso-di-n-propylamine	<200.	ug/Kg	200.
Hexachloroethane	<200.	ug/Kg	200.
Nitrobenzene	<200.	ug/Kg	200.
Isophorone	<200.	ug/Kg	200.
2-Nitrophenol	<200.	ug/Kg	200.
2,4-Dimethylphenol	<200.	ug/Kg	200.
Bis(2-chloroethoxy)methane	<200.	ug/Kg	200.
2,4-Dichlorophenol	<200.	ug/Kg	200.
1,2,4-Trichlorobenzene	<200.	ug/Kg	200.
Naphthalene	<200.	ug/Kg	200.
4-Chloroaniline	<400.	ug/Kg	400.
Hexachlorobutadiene	<200.	ug/Kg	200.
4-Chloro-3-methylphenol	<300.	ug/Kg	300.
2-Methylnaphthalene	<200.	ug/Kg	200.
Hexachlorocyclopentadiene	<200.	ug/Kg	200.
2,4,6-Trichlorophenol	<200.	ug/Kg	200.
2,4,5-Trichlorophenol	<200.	ug/Kg	200.
2-Chloronaphthalene	<200.	ug/Kg	200.
2-Nitroaniline	<300.	ug/Kg	300.
Dimethyl phthalate	<200.	ug/Kg	200.
Acenaphthylene	<200.	ug/Kg	200.

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SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
3-Nitroaniline	<400.	ug/Kg	400.
Acenaphthene	<200.	ug/Kg	200.
2,4-Dinitrophenol	<200.	ug/Kg	200.
4-Nitrophenol	<300.	ug/Kg	300.
Dibenzofuran	<200.	ug/Kg	200.
2,4-Dinitrotoluene	<200.	ug/Kg	200.
2,6-Dinitrotoluene	<200.	ug/Kg	200.
Diethyl phthalate	<200.	ug/Kg	200.
4-Chlorophenyl phenyl ether	<200.	ug/Kg	200.
Fluorene	<200.	ug/Kg	200.
4-Nitroaniline	<400.	ug/Kg	400.
2-Methyl-4,6-dinitrophenol	<300.	ug/Kg	300.
N-Nitrosodiphenylamine	<200.	ug/Kg	200.
4-Bromophenyl phenyl ether	<200.	ug/Kg	200.
Hexachlorobenzene	<200.	ug/Kg	200.
Pentachlorophenol	<300.	ug/Kg	300.
3-Methylphenol	<200.	ug/Kg	200.
2,6-Dichlorophenol	<200.	ug/Kg	200.
N-Nitrosodibutylamine	<200.	ug/Kg	200.
N-Nitrosodiethylamine	<200.	ug/Kg	200.
Phenanthrene	<200.	ug/Kg	200.
Anthracene	<200.	ug/Kg	200.
Di-n-butyl phthalate	<200.	ug/Kg	200.
Fluoranthene	<200.	ug/Kg	200.
Pyrene	<200.	ug/Kg	200.
Butyl benzyl phthalate	<200.	ug/Kg	200.
3,3'-Dichlorobenzidine	<300.	ug/Kg	300.
Benzo(a)anthracene	<200.	ug/Kg	200.
Bis(2-ethylhexyl) phthalate	<200.	ug/Kg	200.
Chrysene	<200.	ug/Kg	200.
Di-n-octyl phthalate	<200.	ug/Kg	200.
Benzo(b)fluoranthene	<660.	ug/Kg	660.
Benzo(k)fluoranthene	<200.	ug/Kg	200.
Benzo(a)pyrene	<200.	ug/Kg	200.
Indenol(1,2,3-cd)pyrene	<200.	ug/Kg	200.
Dibenzo(a,h)anthracene	<200.	ug/Kg	200.
Benzo(ghi)perylene	<200.	ug/Kg	200.
alpha-BHC	<200.	ug/Kg	200.

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555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY:

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
beta-BHC	<200.	ug/Kg	200.
gamma-BHC	<200.	ug/Kg	200.
delta-BHC	<200.	ug/Kg	200.
Heptachlor	<200.	ug/Kg	200.
Chlorodanes (alpha and gamma)	<200.	ug/Kg	200.
Aldrin	<200.	ug/Kg	200.
Heptachlor epoxide	<200.	ug/Kg	200.
Dieldrin	<200.	ug/Kg	200.
Endrin	<200.	ug/Kg	200.
Endrin aldehyde	<200.	ug/Kg	200.
4,4'DDD	<200.	ug/Kg	200.
4,4'DDE	<200.	ug/Kg	200.
4,4'DDT	<200.	ug/Kg	200.
Endosulfan I	<200.	ug/Kg	200.
Endosulfan II	<200.	ug/Kg	200.
Endosulfan sulfate	<200.	ug/Kg	200.
Methoxychlor	<200.	ug/Kg	200.
Toxaphene	<500.	ug/Kg	500.
a,a Dimethylphenethylamine	<100.	ug/Kg	100.
PCB 1221	<500.	ug/Kg	500.
PCB 1232	<500.	ug/Kg	500.
PCB 1242	<500.	ug/Kg	500.
PCB 1248	<500.	ug/Kg	500.
PCB 1254	<500.	ug/Kg	500.
PCB 1260	<500.	ug/Kg	500.
PCB 1016	<500.	ug/Kg	500.
Aniline	<200.	ug/Kg	200.
Benzyl alcohol	<200.	ug/Kg	200.
Ethyl Methanesulfonate	<200.	ug/Kg	200.
2-Picoline	<200.	ug/Kg	200.
Acetophenone	<200.	ug/Kg	200.
Benzoic acid	<200.	ug/Kg	200.
N-Nitrosopiperidine	<200.	ug/Kg	200.
1-Chloronaphthalene	<200.	ug/Kg	200.
1-Naphthylamine	<200.	ug/Kg	200.
2-Naphthylamine	<200.	ug/Kg	200.
Pentachlorobenzene	<200.	ug/Kg	200.
1,2,4,5-Tetrachlorobenzene	<200.	ug/Kg	200.

(1) Copy to Client

Westech Laboratories Inc.
The Quality People
Since 1955

10737 Gateway West, No. 100
El Paso, Texas 79935-4906
(915) 592-3591 • fax 592-3594

CLIENT ADVANCED SCIENCES INC.
555 S. TELSHOR STE 310
LAS CRUCES, NM 88001

SAMPLE NO. : 6404494
INVOICE NO.: 62141037
REPORT DATE: 10-06-94
REVIEWED BY: [illegible]

D A T A T A B L E (Cont.)

Parameter	Result	Unit	Detection Limit
2,3,4,6-Tetrachlorophenol .....:	<200.	ug/Kg	200.
4-Aminobiphenyl .....:	<200.	ug/Kg	200.
Diphenylamine .....:	<200.	ug/Kg	200.
1,2-Diphenylhydrazide .....:	<200.	ug/Kg	200.
Pentachloronitrobenzene .....:	<200.	ug/Kg	200.
Phenacetin .....:	<200.	ug/Kg	200.
Pronamide .....:	<200.	ug/Kg	200.
Benzidine .....:	<200.	ug/Kg	200.
p-Dimethylaminozobenzene .....:	<200.	ug/Kg	200.
Dibenz(a,j)acridine (H2O) .....:	<200.	ug/Kg	200.
7,12-Dimethylbenz(a)anthracene ...:	<200.	ug/Kg	200.
3-Methylcholanthrene .....:	<200.	ug/Kg	200.

(1) Copy to Client

Appendix D-3
SWMU 163 (WSMR-72):
Approval Letter from NMED Dated February 16, 1995

State of New Mexico
ENVIRONMENT DEPARTMENT
Harold Runnels Building
1190 St. Francis Drive, P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-2850

WSMR Environment & Safety Tech Lib
2 8800 00032709 9

MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

GARY E. JOHNSON
GOVERNOR

February 16, 1995

Brigadier General Jerry L. Laws
Commander
U.S. Army White Sands Missile Range
White Sands Missile Range, N.M. 88002-5000

RE: Approval of Corrective Action at the Commissary Landfill site

Dear General Laws:

The Ground Water Protection and Remediation Bureau of the New Mexico Environment Department is in receipt of the Commissary Landfill Trench Sampling Report dated October 24, 1994, and the Commissary Landfill Trench Excavation Material Sampling Report dated December 1, 1994. These Reports are hereby approved pursuant to Section 1-203 of the New Mexico Water Quality Control Commission regulations.

If ground-water contamination occurs as a result of this landfill, or if additional information becomes available indicating that these corrective actions are inadequate, further efforts may be required. If you have any questions, please feel free to call Dave Morgan at 827-2754. Thank you for your cooperation in this matter.

Sincerely,

Marcy Leavitt, Chief
Ground Water Protection and Remediation Bureau

xc: Thomas A. Ladd, Director, Environment and Safety, White Sands Missile Range
Hector Magallanes, SWMU Program Manager, White Sands Missile Range
Gary McGinnis, Environmental Specialist, District III, NMED